#### KUSKOKWIM AREA SALMON ESCAPEMENT OBSERVATION CATALOG 1984 - 1988

Compiled and Edited by

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The Regional Information Report Series was established in 1987 to provide an information access system for all unpublished division reports. These reports frequently serve diverse and ad hoc informational purposes or archive basic uninterpreted data. To accomodate needs for up-to-date information, reports in this series may contain preliminary data.

#### FOREWARD

The Kuskokwim Area Salmon Escapement Catalog is intended to present all of the known adult salmon escapement observations for the streams and tributaries which eventually drain into Kuskokwim Bay. Although the data consists mainly of aerial observations by Alaska Department of Fish and Game personnel, it may also include observations from foot or boat surveys, literature review, department escapement projects, and oral or written communications from various agencies and private citizens.

This data is easily misinterpreted and misused by persons who are unfamiliar with the limitations of aerial observation techniques or by those without experience observing salmon in Kuskokwim area streams. It is therfore requested that this data not be cited or used in any manner except in consultation with the Kuskokwim Escapement Biologist, whose duties normally include responsibility for the database.

The information contained in this report is of a type which was originally recorded on special forms and filed in loose leaf notebook binders. Gary Schaefer (ADFG) coordinated the task of establishing a database and reporting system on the University of Alaska Honeywell computer in 1976. This was transferred to the State of Alaska IBM mainframe computer in 1983. Escapement survey data for 1983 was the last information added to the mainframe database. For several years thereafter, the hand written escapement observation forms were simply copied and distributed as basic data.

There were several factors which made the mainframe computer system unsuitable as a tool for managing the data. Primary was the lack of emphasis for professional computer personnel to maintain the database and produce annual reports. Secondary was the problem of gaining access to a timesharing system with a burgeoning subscriber base. In 1983 the decision was made to implement the database in one of the microcomputer systems which were then becoming available. A programmer was assigned to design a database management system using RBase 4000, the new commercial database management software from MicroRim Corporation. Before the assignment was completed, the programmer transferred to another position.

In December 1985, I received a copy of RBase 5000, MicroRim Corporation's successor to RBase 4000. Because of the continued frustation in establishing a user friendly database system, I began to experiment with the new program. The software proved easy to learn and I quickly established that it was capable of handling the Kuskokwim escapement data.

After two months of intensive effort, I was able to produce a working database management system that used a series of menus to lead the user through the processes of entering data, reviewing and

editing data, and printing reports. Several months of refinement followed, and an updated Kuskokwim salmon observation catalog was produced in October 1986. It was the first comprehensive report of the Kuskokwim salmon escapement data to be issued since 1983.

In February 1987, the A-Y-K Region upgraded the RBase software to the most recent version, RBase System V. The new program corrected some problems with RBase 5000 which caused compromises to be made in the organization of the Kuskokwim database system. Recently, MicroRim Corporation has produced another upgrade, RBase for DOS. This catalog was produced using that software. It presents all available Kuskokwim Area salmon escapement data for the period 1984 through 1988.

The catalog is organized with the stream observations followed by three reference indexes: 1) data type definitions, 2) observer and agency index, and 3) stream location index.

Data prior to 1984 is available as a separate document titled "Kuskokwim Salmon Escapement Observations, 1954-1983" which is available upon request.

This catalog may contain errors and omissions. Please notify me of any deficiencies. Also, the format can be easily changed for future editions. I anticipate revisions to the system application as suggestions and comments are received from users.

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Two Lakes
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7/14/84	Qua	lity	0.75	Rating:	2							
Seq	Method		gency	Spawn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
2	6		ADPG	1	3	1	2		2	2	1	100
	INDEX	Live Chinoo			Live Chum	Dead Chus	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101		9	0 0	8510	0	0	0	0	0	0	0
	102		8	0 0	490	0	٥	0	0	0	0	٥
	103	4		0 0	125	0	0	e	0	0	0	0
	164	5.	_	0 0	14	0	0	0	200	0	0	O.
	105	•	D (	0	0	O O	0	0	0	0	0	a
_	TOTAL	11	7		9139		O		200	<del></del> .	0	<del></del>
	0			_								
/05/84	Qua	lity:	0.7	Ratings	3							
Seq	Method		sency !	Spawn Stg	Wind	Weather	Water	Water		Bottom	Sun Angle	Distance
4	6		ADFG	3	1	4	1		3	2	1	36
	INDEX	Live Chinool	Dead Chinool	Chinook k Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live . Coho	Dead Coho
	101		0	0 0	0	0	0	Q	0	0	0	0
	102	778	3 (	130	1985	7000	0	0	0	0	0	B
	103	30		12	372	400	0	0	0	0	0	0
	104			0	0	0	0	0	0	0	0	o
	105	(	) (	0 0	a	Đ	0	0	0	0	0	0
			· · · · · · · · · · · · · · · · · · ·		2357							

Stream: ANIAK RIVER

08/05/84	Qua	lity	0.	7	Rating:	3							
Seq	Method	Obs	Agency	Sp	swn Stg	Wind	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
3	6	KF	ADFG		3	1	4	1		3	2	1	35
		Liv		Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chino	ook Cl	hinock	Redd	Chum	Chum	Pink	Pink	Sockeye	a Sockeye	Coho	Coho
-	101		0	0	0	0	0	0	0		0	0	0
	102		91	0	106	2052	0	0	0	0	9	0	0
	103		15	0	7	500	0	0	0	0	9	0	D
	104		Q	0	0	0	0	0	0	0	3 0	0	٥
	105		0	0	0	0	a	0	0	•	0	0	0
-	TOTAL	1	.06		•	2552		0			<u> </u>	<u> </u>	

IN 101 MANY 1008 OF CHUM CARCASSES, ALSO MANY SPANNING AREAS OF CHUMS. UNABLE TO SURVEY BECAUSE OF POOR LIGHT AND MATURAL TURBIDITY. 102 AGAIN EVERY BAR HAD MANY CARCASSES - MOSTLY CHUM. COUNTED 23 LARGE CHUM SPANNING AREAS. LIGHT AND BOTTOM MADE LIVE CHUM ALMOST INVISIBLE AS DISCOVERED WHEN SUN CAME OUT FOR FEW MILES. ENDED 103 AT KIPCHUK RIVER DUE TO IMPOSSIBLE LIGHT CONDITIONS.

3/27/84	Qua	lity:	0.65	Rating:	3							
Seq	Method	_	ency S	pawn Stg	Wind	Weather	Water		-	lotton	Sun Angle	Distance
5	6	DS A	DFG	1	3	1	3		3	2	1	100
		Live	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinook	Chinook	Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Coho	Coho
-	101	0	O	0	0	D	0	0	. 0	0	0	0
	102	O	Q	0	0	0	0	0	0	0	4260	0
	103	0	0	C C	a	0	0	C C	0	0	711	0
	104	0	0	0	a	0	0	Q.	0	0	233	0
	105	0	0	0	0	0	0	0	0	0	0	0
_	TATAL	0			0		0		0	<del></del>	5204	
	BEGAN AT	BUCKSTOC	K R. ENDED	AT ANIAK L	AKE. SURVE	Y RATED POO	R DUR TO H	GH TIPRI	תאג עידותו	EARLY SHOT	/RV	

Drainage: KUSKOKWIM RIVER Latitude: 613440M Longitude: 1592910W

Seq	Method	-	ncy Sp	awn Stg	Wind	Weather	Water			otton	Sun Angle	Distance
67	6		FG	3	2	3	3		3	2	1	12 .
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101	٥	0	0	8	0	0	0	0	0	0	0
	102	3	0	0	50	, 0	0	Q	Đ	0	o	0
	103	G	0	9	0	Ó	0	٥	0	0	<b>G</b>	0
	104	40	0	0	0	-0	0	0	0	0	0	0
	105	0	0	0	O	0	0		0	0	0	0
				···	50		0		0		0	
07/28/86			R SURVEY.	ALL ELSE		<del></del>						
Seq.	AREA 104	WAS A FAI	0.85	Rating:	MAS POOR.	Weather	Water			otton	Sun Angle	Distance
	Qua	WAS A PAI	0.85 noy 6p	Ratings	WAS POOR.	Weather		Water 		otton  2	Sun Angle	Distance
8 <b>e</b> q	Qua	WAS A PAI	0.85 ney 6p	Rating:	WAS POOR.		Water		-			
	Qua Method 6 INDEX	UAS A FAI	0.85 ney 6p  FG Dead	Rating:	WAS POOR.  2  Wind  1	1 Dead	Water 2 Live	Dead	2 Live	2 Dead	2 Live	100 Dead
8 <b>e</b> q	Qua Method 6 INDEX	UAS A FAI	0.85 ney Sp  FG Dead Chinook	Rating:  Sawn Stg   3  Chinook  Redd	Wind  1  Live Chum	1 Dead Chum	Water 2 Live Pink	Dead Pink	2 Live Sockeye	2 Dead Sockeye	2 Live Coho	100 Dead Coho
8 <b>e</b> q	Qua Method 6 INDEX 101 102 103	UAS A FAI	0.85 ney 6p FG Dead Chinook 0 0	Rating:  swm Stg  3 Chinook Redd	Wind  Live Chuss  0 440 170	Dead Chum C	Unter 2 Live Pink	Dead Pink	2 Live Sockeye	2 Dead Sockeys	2 Live Gobo	100 Dead Coho
8 <b>e</b> q	Qua Method 6 INDEX 101 102 103 104	UAS A FAI	0.85 ney 6p FG Dead Chinook 0 0	Rating:  swm Stg  3  Chinook Redd 0	Wind  Live Chun  440 170	Dead Chum	Live Pink	Dead Pink	2 Live Sockeye 0 180 14	2 Dead Sockeys	2 Live Gobo	Dead Coho
8 <b>•</b> q	Qua Method 6 INDEX 101 102 103	UAS A FAI	0.85 ney 6p FG Dead Chinook 0 0	Rating:  swm Stg  3  Chinook Redd 0	Wind  Live Chuss  0 440 170	Dead Chum C	Unter 2 Live Pink	Dead Pink	Live Sockeye	2 Dead Sockeys	2 Live Gobo	100 Dead Coho

Stream: ANIAK RIVER

104

105

TOTAL

36

0

7/27/87	Qua	lity:	0.75	Ratings	3							
Seq	Method	Obs A	ency S	pawn Stg	Wind	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
124	6	DS A	DFG	2	1	1	3	_	3	2	2	75
		Live	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinool	Chinook	Redd	Chus	Chuis	Pink	Pink	Sockeye	Sockeye	Coho	Coho
-	101	15	_	5	1030	0	0	0	20	_	0	0
	102	30	_	2	976	3	0	0	38	0	0	0
	103	131	. 0	21	100	0	D	0	0	0	0	0
	104	C	_	0	0	0	0	0	C		Đ	0
	105	e		0	٥	a	0	0	0	0	0	D
	TOTAL	176		A). turbid	2106	ree 101 (to	0	(F=4)	58	•	0	-2\
/18/88	Very tur 104 not	bid in lo	wer 101 (Te		in upper a	eres 101 (tm	3) and 102			•	_	-2), area
/18/88 Seq	Very tur 104 not	bld in lo surveyed.	Wer 101 (T- Survey er 0.7	ided at Gem	in upper a uk Mt. Spa	Weather	3) and 102 hinook=2, c	shum=2.	slightly	•	_	Distance
	Very tur 104 not Qua Method	bid in lo surveyed. lity:	Wer 101 (T- Survey er 0.7	Rating:	in upper auk Mt. Spa	wn stage: d	3) and 102 ninook=2, c	shum=2.	slightly	turbid in a	nrem 103 (t-	
\$ <b>e</b> q	Very tur 104 not Qua Method	bid in lo surveyed. lity:	Survey er  0.7  ency Sp	Rating:	in upper auk Mr. Spa 3	Weather	3) and 102 hinook=2, c	shum=2.	slightly	turbid in a	Sun Angle	Distance
\$ <b>e</b> q	Very tur 104 not Qua Method	bld in la surveyed. lity: Obs As	Survey er  0.7  ency Sp	Reting:	in upper auk Mr. Spa 3 Wind 3	Weather	Hater	Water	v Vis.	Bottom	Sun Angle	Distance
	Very tur 104 not Qua Method	bld in la surveyed. lity: Obs As DS A	O.7  ency Sp  DFG  Dead Chinook	Reting:	in upper auk Mt. Spa 3 Wind 3	Weather	Water	Wate:	v Vis.	Bottom	Sun Angle	Distance 25 Dead

Complete survey of 104; partial survey of 103. Water became too turbid to continue survey. Began at lake and ended about 25 miles downriver. C-172RG.

0

Stream: ANIAK RIVER Drainsge: KUSKOKWIM RIVER Latitude: 613440N Longitude: 1592910W

07/24/88	Qua	lity:	0.75	Rating:	2	•						
Seq	Method	Obs As	ency Sp	awn Stg	Wind	Weather	Water	Water	r Vis.	Bottom	Sun Angle	Distance
206	6	DS A	DFG	2	2	2	2		2	2	1	100
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead. Sockeye	Live Coho	Dead Coho
-	101	0	0	0	8250	0	0	0	100	0	Q	0
	102	530	8	0	15750	440	0	0	1355	0	0	a
	103	299	1	0	508	200	0	0	220	0	٥	0
	104	116	a	0	0	0	0	0	0	Ó	0	0
	105	0	0	0	0	0	0	0	0	0	0	0
-	TOTAL	945			24508		0		1675		0	

Began at Aniak Lake, ended 1/2 mile below sonar camp. Water-2-3 in lower river, water-1-2 in upper/middle river. C-172RG.

/14/61	Qua	lity:	1.25		Rating	2							
Seq	Method	Obs .	Agency	Бра	ewn Stg	Wind	Weather	Water	Water		Bottom	Sun Angle	Distance
6	12	DS	ADFG		0	0	0	. 0		0	0	0	0
	INDEX	Live			Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	420	50	0	0	526320		0	0	0	0	0	
	102		0	D	0	0	0	0	0	0	o	0	Ð
	103		0	0	0	0	٥	. 0	0	0	0	0	D
	104		0	D	0	0	0.	0	0	0	0	0	0
	105		0	0	D	ġ	0	0	0	0	8	0	٥
						<del> </del>		0			-	0	
01/82			CAPEMENT				est wet spe	_	SITION 6/	_			
01/82	TOTAL SE	ASON ES			MATE APPOR		est wet spe	_		15-8/14.			
01/82 Seq	TOTAL SE	ASON ES	CAPEMENT			LIONED BA I	Weather	_	Water	15-8/14. Vis.		Sun Angle	Distance
	Qua	ASON ES	1.25		Rating:	PIONED BY T	Weather	CIRS COMPOS	Water	15-8/14. Vis.	Betton	Sun Angle	
5eq	Qua	lity:	1,25 Agency ADFG	Spe	Rating:	PIONED BY T	Weather	CIES COMPOS	Water	15-8/14.	Bettom Q Dead	Sun Angle	
5eq	Qua Method	11ty: Obs /	1.25  lgency  ADFG  Deck Chin	Spe	Rating:	2 Wind 0	Weather 0	Water 0	Water	15-8/14. Vis.	Bottom Q Dead Sockeye	Sun Angle	Q Dead
5eq	Qua Method 12	Live	1.25  lgency  ADFG  Deck Chin	Sp:	Rating: awn Stg 0 Chinook Redd	Vind  Live Chum	Weather  0  Dead Chum	Water  O  Live	Water Dead Pink	Vis.  Vis.  O  Live Sockeye	Bottom 0 Dead Sockeye	Sun Angle  0 Live Coho	0 Dead Coho
5eq	Qua Mathod 12 INDEX 101 102 103	Live	1.25 Lgency ADFG De. Ok Chin	Spa ad ook	Rating: awn Stg 0 Chinook Redd 0 0	Vind  Live Chum	Weather  0 Dead Chuss 0 0	Water  O Live Pink  0 0	Water Dead Pink	Vis.  O  Live Sockeye	Bottom 0 Dead Sockeye	Sun Angle  0 Live Coho	Dead Coho
5eq	Qua Mathod 12 INDEX 101 102 103 104	Live	1.25  Agency  ADFG  Chin	Spa ad ook 0 0	Rating:  awn Stg  Chinook Redd  0 0 0	Vind  Live Chum  389226	Weather  0  Dead Chuss  0  0  0  0	Water  O Live Pink  0 0	Pend Pink	Vis.  Vis.  Sockeye	Bottom Q Dead Sockeye	Sun Angle  O  Live Coho  O  O  O	Dead Coho
5eq	Qua Mathod 12 INDEX 101 102 103	Live	1.25  lgency  ADFG  Decok Chine	Spa ad ook 0	Rating: awn Stg 0 Chinook Redd 0 0	Vind  Live Chum  389226	Weather  0 Dead Chuss 0 0	Water  O Live Pink  0 0	Water Dead Pink 0	Vis.  O Live Sockeye	Bottom Q Dead Sockeye	Sun Angle  0 Live Coho 0 0	Dead Coho

Stream: ANIAK SONAR PROJECT

Latitude: 613009N Longitude: 1592226W

/28/83	Qui	lity:	1.25	Rating:	2							
Seq	Method	•	ency S	pawn Stg	Wind	Weather	Water		r Vis. I	Sottom	Sun Angle	Distance
8	12		DFG	0	0	0 .	0	_	0	0	0	0
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chus	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101	4913	0	0	114869	ū	0 .	0	0	0	0	0
	102	0	0	0	0	0	0	G	0	0	0	9
	103	•	_	0	0	0	e	0	0	0	0	0
	104	0	-	0	0	0	0	0	0	0	0	0
	105	C	0	D	0	0	0	0	0	0	0	0
-	TOTAL	4911			114869		0		0		0	•
130/84		ASON ESCA	PEMENT EST	Rating:	PIONED BY 1	EST MET SPE	CIES COMPOS	ITION.	6/19-7/28			
/30/84 Seq		lity: Obs Ag	1.25			Weather	Water		r Vis. I	otton	Sun Angle	Distance
	Que Hethod	lity: Obs As	1.25 ency \$	Rating:	2 Wind	Weather		Water	r Vis. I	ottom	•	
Seq	Que Hethod	lity: Obs As	1.25 ency S	Rating:	2 Wind	Weather	Water	Water	r Vis. I	ottom		
Seq	Que Method  12 INDEX	Obs Ag  DS A  Live Chincole	1.25 ency S  DFG Dead Chinook	Rating: pawn Stg 0 Chinook	Wind  0 Live	Weather 0	Water  G Live Pink	Water 	r Vis. E	ottom  0 Dead	0 Live	0 Dead
Seq	Que Method  12 INDEX 101 102	Obs Ag	1.25 ency S DFG Dead Chinook	Rating: pawn Stg 0 Chinook Redd	Wind  0 Live Chum	Weather  0  Dead Chum  0 ,	Water G Live Pink	Water  Dead Pink	Vis. E	ottom  0 Dead Sockeye	0 Live Coho	0 Dead Coho
Seq	Que Method  12 INDEX 101 102 105	Obs Ag  DS A  Live Chincole	1.25 ency S DFG Dead Chinook	Rating: pawn Stg 0 Chinook Redd	2 Wind  0 Live Chum	Weather  0  Dead Chum	Water  G Live Pink	Water Dead Pink	Vis. E	ottom  0 Dead Sockeye	0 Live Coho	O Dead Coho
Seq	Qua Method  12 INDEX 101 102 105 104	Obs Ag	1.25 ency S DFG Dead Chinook	Rating: pawn Stg 0 Chinook Redd 0 0	2 Wind  0 Live Chum 254747 0 0	Vesther  0  Dead Chum  0  0	Water  G Live Pink  0 0 0	Dead Pink	Live Sockeye	Dead Sockeye	D Live Coho	Dead Coho
Seq	Que Method  12 INDEX 101 102 105	Obs Ag DS A Liva Chincols	1.25 ency S DFG Dead Chinook	Rating: pawn Stg 0 Chinook Redd 0	2 Wind  0 Live Chum 254747 D	Weather  0  Dead Chum  0 , 0	Water  G Live Pink  0 0 0	Dead Pink	Vis. E	Ottom  0 Dead Sockeye 0 0	D Live Coho	Dead Coho
Seq	Qua Method  12 INDEX 101 102 105 104	Obs Ag	1.25 ency S DFG  Dead Chinook  0 0 0	Rating: pawn Stg 0 Chinook Redd 0 0	2 Wind  0 Live Chum 254747 0 0	Vesther  0  Dead Chum  0  0	Water  G Live Pink  0 0 0	Dead Pink	Live Sockeye	Dead Sockeye	D Live Coho	Dead Coho

07/27/87	Qua	lity:	0.85	Rating:	2							
Seq		-	ency	Spawn Stg	Wind	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
12			DFG	. 2	1	1	2	_	2	2	1	2
	INDEX	Live Chinook	Dead Chineo		Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
	101		1	0 0	0	0	0	0	78	- G	0	0
	102	0	ì	0	0	Ö	Q	0	0	Q	0	0
	103	0	ı	0 0	D	0 -	0	D	0	. 0	0	0
	104	. 0	1	0 0	0	0	0	Þ	0	0	0	0
	105	a	1	0 0	0	0	0	0	0	0	0	0
•	TOTAL	0	)		0		0		78		0	
	0						•					

Stream: AROLIK RIVER Drainage: KUSKOKWIM BAY Latitude: 5938GON Longitude: 1613600W

7/27/87	•	Qua	lity:	0.85		Ratings	. 2							
84	q	Method	Obs	Agency	Sp	swn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
1	26	3	KS	ADFG		2	1	1	2		2	2	1	35
	1	Index	Li Chin		ead nook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sookeye	Live Coho	Dead Coho
	_	101		764	0	0	2205	0	0	0	1363	0	0	0
		102		0	0	0	0	0	0	0	0	0	0	0
		103		0	0	G	O.	0	0	0	0	•	0	0
		104		0	0	0	0	0	0	0	0	0	0	D
		105		0	0	0	0	0	D	0	0	0	0	Q
	7	TOTAL		764			2205		0		1363		0	
	(	Ò												

Stream: BARNUM CREEK Drainage: GOODNEWS RIVER Latitude: 591500N Longitude: 1612300W

7/28/87	Qua	lity:	0.75	Rating:	2							
Seq	Method	Obs Age	ncy S	pawn Stg	Wind	Weather	Water	Wate	r Vis.	Bottom	Sun Angle	Distance
127	3		OFG	2	2	2 .	2		2	2	1	10
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dend Chun	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	9	0	0	277	0	0	0	252	0	G	0
	102 103	0	0	0	D 40	0	0	0	0	6 a	0	0
	104	ō	0	ō	Û	Ō	0	ō	ō	ā	0	0
	105	0	0	a	0	0	0	٥	0	0	0	0
_	TOTAL	9		<del></del>	277	•	0		252		0	

10/14/85	Qua	lity:	0	1.6	Ratings	3							
Seq  75	Method  7	Obs KP	Agenc		awn Stg	Wind  2	Weather	Water  2		r Vis.  3	Bottom  2	Sun Angle	Distance
	INDEX	Li Chin	-	Dead Chinook	Chinook Redd	Live Chum	Dead Chun	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101		G	Q	0	0	C C	0	0		0	3	1
	102		G	0	0	Đ	0	. 0	0			0	0
	163		0	0	0	0	0	0	0		0	0	0
	104		0	0	0	. 0	0	D	0	•	· 6	0	0
	105		0	0	0	, 0	0	0	0	•	0	0	0
_	TOTAL		0			0		0			<b>)</b>	3	

Drainage: TULUKSAK RIVER

LOWER 2 MILES MYAC TO SHAMROCK CREEK UNSURVEYABLE DUE TO TURBIDITY CAUSED BY HIGH WATER. GREEK WAS BANK FULL BUT VISIBILITY IMPROVED AS WE PROCEEDED UPSTREAM. CARCASS WAS FOUND ABOVE PREVIOUS UPPER LIMIT. EXTENSION WAS CONFIRMED BY KLECTROPISHING ON THE 10/15 WHICH TOOK A 70001 COHO FRY. ARRIAL SURVEYS NOT POSSIBLE ON 15TH DUE TO WEATHER.

08/02/86	Qua	lity:	0.75	Rating:	3	•						
Seq	Method	Obs Ag	ency S	pawn Stg	Wind	Weather	Water	Water	c Vis. I	ottom	Sun Angle	Distance
121	2		DCO	2	3	2	2		2	1	1	5
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead. Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	٥	. 0	0	0	0	ů.	0	0	0	0	0
	102	G	• 0	•	. 0	0	0	D	0	0	0	D
	103	0		0	0	0	0	0	0	Đ	0	0
	104	a	0	0	0	6	0	D	0	0	0	0
	105	0	0	a	0	0	0	0	0	8	0	٥
-	TOTAL.	0			0		0		0		0	

Stream: BEAR CREEK Drainage: TULUKSAK RIVER Latitude: 610000N Longitude: 1595800W

08/01/87	Qui	lity	1.	Rating:	1							
Seq	Mathod	Obs Ag	ency Sp	ewn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
18	7 9		IGCO	2	1	1	1		1	1	1	3
		Live	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chincol	Chinook	Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Coho	Coho
•	101	3	0	0	D	0	0 .	0	a	, D	0	6
	102	0	• •	0	0	0	0	0	0	. 0	0	0
	103	0	0	0	D	0	0	Đ	q	. 0	0	0
	104	C	0	0	0	0	0	Đ	0	. 8	0	Q
	105	O	0	0	0	0	0	0	0	. 0	0	0
-	TOTAL	3			a	•	0		0	l	0	· ·
	0											

Stream: BESSIE CREEK Drainage: AROLIK RIVER Latitude: 594230N Longitude: 1614400W

09/04/84	Qua	lity:	1	•	Ratings	1	•						
Seq	Hethod	Obs	Agency	Spe	ewn Stg	Wind	Weather	Water	Water		Bottom	Sun Angle	Distance
19	1	KF	ADFG		2	1	1	1		1	1	1	1
	INDEX	Li: Chin		Deed hinook	Chinook Redd	Live Chum	Dend Chum	Live Pink	Dead Pink	Live Sookeye	Dead Sockeye	Live Cobe	Dead Coho
-	101		0	0	0	0	Đ	0	0	0	0	14	a
	102	-	. 0	٥	0	0	0	6	0	0	0	0	0
	103		0	0	0	0	0	0	0	0	0	0	0
	104		0	Q	0	0	٥	Q	Đ	0	0	0	<b>0</b> ·
	105		0	0	0	0	0	O	0	0	0	0	0
_	TOTAL	•	0			0	<del></del>	0		0		14	

ON COODNEWS TO BETHEL FLIGHT CROSSED THREE UPPER TRIBS OF BESSIE CREEK FLOWING OUT OF THUMB MOUNTAIN AT 90 DEGREES AND SAW TOTAL OF 14 SPANNING PAIRS OF CORO.

13

Drainage: KWETHLUK RIVER Latitude: 601400M

Longitude: 1601500W

Stream: CANYON CREEK

7/13/84	Qua	lity:	0.85	Ratings	3							
Seq	Method	•	ency	Spawn Stg	Wind	Weather	Water	Wate	r Vis. 1	Bottom	Sun Angle	Distance
20	6		DFG	1	1	2	1		3	1	1	15
	INDEX	Live Chinool	Dead Chinool	Chinook Redd	Live Chun	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	•	) (	) 0	102	0	0	0	0	0	9	0
	102		• •	9	0	0	0	0	0	0	0	0
	103	(		0	0	. 0	0	0	0	0	Q	0
	104		•	0	0	0	0	0	0	0	0	0
	105	•	•	0	0	6	0	0	0	0	G	0
_	50541		1	· · · · · ·	102	····	0		0			<del></del>
7/23/85				PLANE FOR SU	•	DS SURVEY O	F BAME DATE	ł. 				
	I WAS ON	URONG ST	DE OF AIRI		JRVEY. SEK	DS SURVEY O	F BAME DATE		r Vis.	ottom	Sun Angle	Distance
/23/85	I WAS ON	URONG ST	0.8	Rating:	Wind	Weather	Water		r Vis. 1			
/23/85 Seq	I WAS ON	URONG ST	0.8 ency f	Rating: Spawn Stg 2 Chinook	Wind	Weather	Water					
/23/85 Seq	Qua Qua Hethod 6 INDEX	URONG SI	0.8 ency f	Rating: Spawn Stg 2 Chinook Redd	Wind  Live Chum	Weather 3 Dead Chum	Water  1 Live Pink	Water 	2 Live	2 Dead Sockeye	1 Live Gobo	25 Dead Coho
/23/85 Seq	Qua Hethod 6 INDEX	URONG SI	0.8 ency DFG Dead Chinool	Rating: Spawn Stg 2 Chinook Redd	Wind  1 Live Chum	Weather 3 Dead Chum	Water 1 Live Pink 0	Dead Pink	2 Live Sockeye	2 Dead Sockeye	1 Live Gobo	25 Dead Coho
/23/85 Seq	Qua Qua Hethod 6 INDEX 101 102 103	URONG SI	0.8 ency DFG Dead Chinool	Rating:  Spawn Stg  2 Chinook Redd  0 0	Wind  1 Live Chum	Weather  3 Dead Chum  0 0 0	Water 1 Live Pink 0 0	Dead Pink	Live Sockeye	Dead Sockeye	1 Live Gobo	25 Dead Coho
/23/85 Seq	Qua Qua Hethod 6 INDEX 101 102 103 104	URONG SI	0.8 ency DFG Dead Chinool	Rating:  Spawn Stg  Chinook Redd  0 0 0	Wind  1 Live Chum	Weather  3 Dead Chum  0 0 0	Water 1 Live Pink 0 0	Dead Pink	Live Sockeye	Dead Sockeye	1 Live Gobo	25 Dead Coho  8 0 0
/23/85 Seq	Qua Qua Hethod 6 INDEX 101 102 103	URONG SI	0.8 ency DFG Dead Chinool	Rating:  Spawn Stg  Chinook Redd  0 0 0	Wind  1 Live Chum	Weather  3 Dead Chum  0 0 0	Water 1 Live Pink 0 0	Dead Pink	Live Sockeye	Dead Sockeye	1 Live Gobo	25 Dead Coho
/23/85 Seq	Qua Qua Hethod 6 INDEX 101 102 103 104	URONG SI	0.8 ency DFG Dead Chinool	Rating:  Spawn Stg  Chinook Redd  0 0 0	Wind  1 Live Chum	Weather  3 Dead Chum  0 0 0	Water 1 Live Pink 0 0	Dead Pink	Live Sockeye	Dead Sockeye	1 Live Gobo	25 Dead Coho  8 0 0

Latitude: 601400N Longitude: 1601500W

/31/85	Qua	lity:	U	. 9	Rating:	9		•					
Seq	Hethod	Obs	Ageno	y Sp	swn Stg	Wind	Weather	Water		r Vig. )	Bottom	Sun Angle	Distance
97	6	KF	ADFG	i	1	1	3	1	_	1	1	1	30
	IMDEX	Li: Chin		Dead Chinook	Chinook Redd	live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101		9	0	0	٥	D	0	0	0	0	Û	0
	102		3	0	0	0	0	0	0	0	0	0	0
	103		0	0	0	0	0	0	0	0	0	0	0
	104		0	0	0	0	0	0	0	0	0	0	0
	105		0	ū	D	å	0	0	0	. 0	0	0	0
_	TOTAL		12			0	<del> </del>	0		0		0	<del> </del>
				T CREEK.		.,,	AT 1000 FT.	REACHED	KWETHLUI	RIVER U	DER LOW L	IGHT LEVELS	. QUIT.
/23/87 Seq		lity		65	CLOUD LAY	YER FORMING 3	Weather	REACHED			DER LOW L	Sun Angle	Distance
	Qua	lity	0.0	65 y Sp	Rating:	3	<del>-, -, -, -, -, -</del>			· Vis.			
Seq	Qua Method	lity: Obs	Ageno; Appro ADFG	65 y Sp	Rating:	3 Wind	Weather	Water	Water	vis.	lotton	Sum Angle	Distance
Seq	Qua Method  2F	Obs DS	Ageno; Appro ADFG	65 y Sp.	Rating: - awn Stg 0 Chinook	3 Wind  2 Live	Weather  3 Dead	Water 2 Live	Wate:	Vis. 1	Sottom2	Sun Angla	Distance 18 Dead
Seq	Qua Hethod  2F INDEX	Obs DS	Ageno	y Sp.  Dead Chinook	Rating: - awn Stg 0 Chinook Redd	3 Wind  2 Live Chum	Weather 3 Dead Chum	Water 2 Live Pink	Wate:	Vis. 1	lottom 2 Dead Sockeye	Sun Angla	Distance  18 Dead Goho
Seq	Qua Method 2F INDEX	Obs DS	Ageno	p Sp. Dead Chinook	Rating: - awn Stg 0 Chinook Redd	3 Wind  2 Live Chum	Weather 3 Dead Chum	Water 2 Live Pink	Water Dead Pink	Vis. 1	Dead Sockeye	Sum Angle  1  Live Cohe	Distance  18 Dead Goho
Seq	Qua Method  2F INDEX 101 102 103 104	Obs DS	Ageno	Dead Chinook	Rating: - awn Stg 0 Chinook Redd	3 Wind  2 Live Chum	Weather 3 Dead Chum	Water 2 Live Pink	Hate: Dead Pink 0	Live Sockeye	Dead Sockeye	Sun Angla  1  Live Coho	Distance 18 Dead Goho 0
Seq	Qua Method  2F INDEX 101 102 103	Obs DS	Ageno	Dead Ghinook	Rating: - awn Stg 0 Chinook Redd 0 0	Sind 2 Live Chum 0 0	Weather  3  Dead. Chum  0 0 0	Water 2 Live Pink 0 0	Dend Pink 0	Sockeye	Dead Sockeye	Sun Angla  1 Live Coho 0 0	Distance 18 Dead Goho 0
Seq	Qua Method  2F INDEX 101 102 103 104	Obs DS	Ageno ADFG ve ook	Dead Ghinook	Rating: - awn Stg 0 Chinook Redd 0 0	Sind 2 Live Chum	Weather  3  Dead Chum  0 0 0 0	Water 2 Live Pink 0 0 0	Dead Pink 0 0	Sockeye  O O O O O O	Dead Sockeye	Sun Angle  1 Live Coho 0 0 0	Distance 18 Dead Goho 0

Drainage: KWETHLUK RIVER

Latitude: 601400M

Longitude: 1601500W

	•	lity:	0.95	Ratings	1							
Seq	Method		ency Sp	oawn Stg	Wind	Weather	Water		r Via.	Bottom	Sun Angle	Distance
186			of G	2	1	2	1		1	1	1	18
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	124	0	0	310	1	0	a	0	0	0	0
	102	a	0	0	0	0	0	0	0	0	0	0
	103	0	0	0	0	0	0	0	•	0	0	0
	104	0	0	0	0	0	0	0	0	•	_	0
	105	0	0	O	0	0	0	0	0	0	0	0
	TOTAL	124			310		0		0		Ö	
		Ray Jone	ASS SPOST	d.						•		
/16/88	observer Qua	Ray Jone	0.8	Rating:	2							
/16/98 Seq	Qua Method	Ray Jone	0.8	Rating:	2 Wind	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
/16/88	observer Qua	Obs Age	0.8 nncy Sp	Rating:	2 Wind  2	Weather 2	Water  2	Water	: Vis.	Bottom  1	Sun Angle	Distance
/16/98 Seq  196	Qua Method	Ray Jone	0.8	Rating:	2 Wind	Weather	Water	Water	r Vis.	Bottom  1 Dead	Sun Angle	Distance
/16/98 Seq  196	Qua Method 6 INDEX	Obs Age DS Al Live Chinook	0.8 nncy Sp DFG Dead Chinook	Rating: ewn Stg 1 Chinook Redd	Wind 2 Live Chum	Weather 2 Dead Chum	Water 2 Live Pink	Water  Dead Pink	Vis.  2 Live Sockeye	Bottom 1 Dead Sockeye	Sun Angle  1  Live Coho	Distance  10 Dead Coho
/16/98 Seq  196	Qua Method 6 IHDEK	Obs Age DS Al Live Chinook	0.8 nncy Sp DFG Dead Chinook	Rating:  ewn Stg  Chinook Redd	Wind  2 Live Chum	Weather  2  Dead Chum	Water 2 Live Pink 0	Dead Pink	Live Sockeye	Bottom 1 Dead Sockeye	Sun Angle  1 Live Coho	Distance  10 Dead Coho
/16/98 Seq 196	Qua Method 6 INDEX 101 102 103	Obs Age DS Al Live Chinook	0.8 nncy Sp Dead Chinosk	Rating:  ewn Stg  Chinook Redd  0 0	Wind  2 Live Chum	Weather 2 Dead Chum	Water 2 Live Pink 0 0	Water  Dead Pink	Live Sockeye	Bottom 1 Dead Sockeye 6	Sun Angle  1 Live Coho	Distance  10 Dead Coho
/16/98 Seq 196	Qua Method 6 INDEX 101 102 103 104	Obs Age DS Al Live Chinook	0.8 nncy Sp Dead Chinook	Rating:  ewn Stg  Chinook Redd  0 0 0	Wind  2 Live Chum	Weather  2  Dead Chum	Water 2 Live Pink 0 0 0	Dead Pink	Live Sockeye	Bottom 1 Dead Sockeye 6	Sun Angle  1 Live Coho 0 0	Distance  10 Dead Coho
/16/98 Seq  196	Qua Method 6 INDEX 101 102 103	Obs Age DS Al Live Chinook	0.8 nncy Sp Dead Chinosk	Rating:  ewn Stg  Chinook Redd  0 0	Wind  2 Live Chum	Weather  2 Dead Chum	Water 2 Live Pink 0 0	Dead Pink	Live Sockeye	Bottom 1 Dead Sockeye 6 0 0	Sun Angle  1 Live Coho 0 0 0	Distance 10 Dead Coho 0 0
/16/98 Seq  196	Qua Method 6 INDEX 101 102 103 104	Obs Age DS Al Live Chinook	0.8 nncy Sp Dead Chinook	Rating:  ewn Stg  Chinook Redd  0 0 0	Wind  2 Live Chum	Weather  2 Dead Chum	Water 2 Live Pink 0 0 0	Dead Pink	Live Sockeye	Bottom 1 Dead Sockeye 0 0 0	Sun Angle  1 Live Coho 0 0 0	Distance 10 Dead Coho 0 0

Stream: CANYON CREEK Drainage: KWETHLUK RIVER Latitude: 60140DN Longitude: 1601500W

08/02/88	Que	ility	0.7	15	Rating:	2							
Seq		Oba	Agency	Sp.	awn Stg	Wind	Weather	Water		r V10.	Bottom	Sun Angle	Distance
21	2F	DS	ADPG		3	2	3	1		2	2	1	15
	INDEX	L1 Chin		Dead hinook	Chinook Redd	Live Chum	· Dend Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Desd Cobo
•	101		142	2	39	30	0	0	0	0	0	0	0
	102		Q	0	0	q	0 -	0	0	0	. 0	0	G
	103		0	0	0	0	a	0	0	0	•	0	0
	104		0	0	9	0	a	0	0	0	•	0	0
	105		0	0	0	0	0	0	0	0	0	0	٥
	TOTAL		142			30	<del></del>	. 0		0		C	

Began SE of Icebox Lake, ended at confluence with Kethluk River. Low, clear water made chinook easily visible. Good numbers of chinook redds; few redds abandoned. USPWS sizeraft piloted by George Walters.

Stream: CANYON CREEK/GOODNEWS RIVER Drainage: GOODNEWS BAY Latitude: 592000N Longitude: 1610100W

7/28/87	Qua	lity:	0.75	Rating	2							
Seq	Method	•		Spawn Stg	Wind	Weather .				Bottom	Sun Angle	Distance
129	3		ADFG	2	2	2	2	-	2	2	1	13
	INDEK	Live Chinool			Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	41	7	0 0	24	0	0	0	0	0	0	0
	102	(	•	0 0	0	0	0	0	٥	0	0	0
	103	- {	)	0 0	0	0	0	D	0	0	0	0
	104	(	•	0 0	0	0	0	0	0	0	0	0
	105	•	3	0 0	0	0	0	0	0	0	0	0
<del>-</del>	TOTAL	47	,	<u></u>	. 24		0		G		0	
	0											

Drainage: CANYON CREEK/GOODNEWS RIVER Latitude: 592600N Longitude: 1610900W

07/28/87	Qua	lity:	0.75	Rating:	2		•					
Seq	Hethod	Obs A	ency	Spawn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
128	3	KS /	DFG	2	2	2	2	-	2	2	1	4
	INDEX	Live Chinool	Dead Chinoo		Live Chum	Dead Chum	Live Pink	Dead Fink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_					_						<del></del>	
	101 102	(	)		0	8 0	0	0	200 0	. 0	0	0
	103	9	)	0 0	0	0	0	0	a	0	0	0
	104 105	(	)	0 0.	. 0	, a G	0	0	0	. 0	0	0
_	TOTAL	-	)		D		0	<del></del>	200	<u> </u>	0	········
	0											

Stream: CANYON LAKE

19

Stream: CARTER CREEK Drainage: KUSKOKWIM BAY Latitude: 591700N Longitude: 1615600W

07/27/87	Qua	lity:	0.85	Rating:	2							
Seq	Method	_	•	pawn Stg	Wind	Weather	Water	Wate	r Vla.	Bottom	Sun Angle	Distance
131	3		DFG	2	1	1	2	-	2	2	1	5
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101	0	0	0	14	0	0	0	0	0	0	0
	102 103	0	0	0	0 0	0 0	10 0	0	0	0	0	0
	104	0	Ō	0	Ō	å	0	0	0	0	0	0
	105	0	0	0	0	0		Q		0	0	0
_	TOTAL	0			14		0		0		0	·
	0									•		

/23/84	Qua	ality:	0.9	Rating:	1							
Seq	Method		ency Si	avn Stg	Wind	Weather	Water		r Vis.	Botton	Sun Angle	Distance
21	. 6		DFG	2	2	2	1	-	1	1	2	50
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Bookeye	Dead Sockeys	Live Coho	Desd Coho
-	101	511	-	0	30	0	0	0	0	-	-	0
	102	666	_	0	0,	D	0	0	0	0	a	0
	103	0	0	0	D	0	C C	0	0	٥	-	0
	104	0	_	0	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0	0	0
_	TOTAL	1177			\$0		0		0		0	
/26/85		INDED AT S	O.9	CREEK.	2		· - <del></del> -	· · · · · · ·				
Seq		ility: Obs Ag	0.9 sncy Sp	Rating:	Wind	Weather	Water			<b>S</b> ottom	Sun Angle	Distance
	Qua Hethod	obs Ag	0.9	Ratings		Weather	Water  2		. Vis. 1	Sottom  1	Sun Angle	Distance  50
Seq	Qua Hethod	obs Ag	0.9 snoy Sp DFG	Rating:	Wind 					1 Dead		
Seq	Qua Method 6 INDEX	Obs As DS A Live Chinook	0.9 snoy Sg DFG Dead Chinook	Rating:	Wind  1 Live	1 Dead	2 Live	Dead	2 Live	1 Dead	1 Live	58 Dead
Seq	Qua Method 6 INDEX	DS A Live Chinook	0.9 snoy Sg DFG Dead Chinook	Rating: ewn Stg 2 Chinook Redd	Wind 1 Live Chum	1 Dead Chum	Live Pink	Dead Pink	2 Live Sockeye	1 Dead Sockeye	1 Live Coho	50 Dead Coho
Seq	Qua Method 6 INDEX 101 102 103	DS A Live Chinook	0.9 snoy Sp DFG Dead Chinook	Rating:  sawn Stg  2  Chinook  Redd	Wind  1 Live Chum	1 Dead Chum	2 Live Pink	Dead Pink	2 Live Sackeye	1 Dead Sockeye	1 Live Coho	58 Dead Coho
Seq	Qua Method 6 INDEX 101 102 103 104	DS A Live Chinook	0.9 snoy Sg DFG Dead Chinook	Rating: ewn Stg 2 Chinook Redd	Wind 1 Live Chum	1 Dead Chum	Live Pink	Dead Pink 0	Live Sockeye	Dead Sockeye	Live Coho	50 Dead Coho
Seq	Qua Method 6 INDEX 101 102 103	DS A Live Chinook	0.9 snoy Sp DFG Dead Chinook	Rating:  ewn Stg  2 Chinook Redd 0 0	Wind  1 Live Chum	1 Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sookeye	Live Coho	Dead Coho
****	Qua Method 6 INDEX 101 102 103 104	DS A Live Chinook	O.9 Snoy Sp DrG Dead Chinook	Rating:  2 Chinook Redd  0 0 0	Wind 1 Live Chum 30 0	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho

Stream: CHEENEETHUK RIVER

21

7/27/86	Qui	lity:	0.85	Rating	3	•			•			
Seq	Hethod	_	ncy Sp	ewn Stg	Wind	Weather	Water		r Vie.   1	Sottom	Sun Angle	Distance
11	6		)FG	2	1	. 1	3	_	2	1	1	35
	INDEX	Live Chinook	Dead Chinook	Chinaok Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sookeye	Live Coho	Dead Goho
	101	٥	0	G	0	0	0	0	0	0	D	0
	102	110	0	0	0	. 0	0	0	0	0	Đ	0
	103	0	0	0	0	0	C	0	0	0	0	a
	104	0	0	0	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0	0	0
-					0		0		0		0	
126/87	ELAPSED	TIME 22 MI	HUTES.		ARKA 101 UN	Surveyable.		POOR SUI		T AT SHOE	LEATHER CRE	EK.
/26/87	BEGAN AT ELAPSED Qua	MOUTE. J TIME 22 MI Lity:	O.8	Rating:	AREA 101 UN		AREA 102		RAEA. GN3			
/26/87 Seq	Began AT Elapsed	MOUTE. I TIME 22 MI Lity:	O.8		ARKA 101 UN	SURVEYABLE.			RVEY. QUI	Ottom	Sun Angle	Distance
Seq	BEGAH AT ELAPSED  Qua	MOUTE. 3 TIME 22 M  lity: Obs Age	O.8	Rating:	ARKA 101 UN 2	Weather	AREA 102	Water	RVEY. QUI			Distance
Seq	BEGAH AT ELAPSED  Qua	MOUTE. 3 TIME 22 M  lity: Obs Age	O.8	Rating:	AREA 101 UN 2 Wind	Weather	AREA 102	Water	s Are. E	ottom	Sum Angle	Distance
Seq	BEGAH AT ELAPSED  Qua	MOUTR. F TIME 22 MI lity: Obs Age	0.8 nay Sp	Rating: awn Stg	AREA 101 UN 2 Wind 2	Weather	Water	Water	Vis. E	ottom  2	Sun Angle	Distance
Seq	Qua	HOUTE. F TIME 22 MI lity: Obs Age	0.8 ndy Sp	Rating: awn Stg 1 Chinook	AREA 101 UN  2  Wind  2 Live	Weather 1 Dead	Water	Wate:	Vis. E	ottom  2 Dead	Sun Angla	Distance
Seq	Qua Method	MOUTR. F TIME 22 MO lity: Obs Age DS Al	O.8  ndy Sp  FG  Dead  Chinook	Rating: awn Stg  1 Chinook Redd	AREA 101 UN  2  Wind  2  Live Chum	Weather  1 Dead Chum	Water 2 Live Pink	Water Dead Pink	Vis. E	ottom  2 Dead Sockeye	Sun Angle  1 Live Coho	Distance  39 Dead Coho
Seq	Qua Nethod 6 INDEX	MOUTR. FINE 22 MO Lity:  Obs Age Chinook  289 28	O.8  ndy Sp  Dead Chinook	Rating: awn Stg  1 Chinook Redd	AREA 101 UN  2  Wind  2  Live Chum	Weather  1 Dead Chum	Water 2 Live Pink	Water Dead Pink	Vis. E Live Sockeye	Dead Sockeye	Sun Angle 1 Live Coho	Distance  39 Dead Coho
Seq	Qua Nethod 6 INDEX	NOUTR. FINE 22 MO Lity:  Obs Age Chinook  289 28 0	O.8  ndy Sp  PG  Dead  Chinook	Rating: awn Stg 1 Chinook Redd 49 2 0	AREA 101 UN  2  Wind  2  Live Chum	Weather  1 Dead Chum	Water 2 Liva Pink	Water Dead Pink 0	Vis. E Live Sockeye	Dead Sockeye	Sun Angla 1 Live Coho	Distance  39 Dead Coho
Seq	Qua Nethod 6 INDEX	MOUTR. FINE 22 MO Lity:  Obs Age Chinook  289 28	O.8  ndy Sp  Dead Chinook	Rating: awn Stg 1 Chinook Redd 49 2 0	AREA 101 UN  2  Wind  2  Live Chum	Weather  1 Dead Chum  0 0	Water  2 Liva Pink	Water Dead Pink 0	Vis. E  Live Sockeye  0 0	Dead Sockeye	Sun Angla 1 Live Coho	Distance 39 Dead Coho 0

Stream: CHEENEETHUK RIVER Drainage: SWIFT RIVER Latitude: 614850N Longitude: 1560030W

08/D4/88	Que	lity:	0.9	Rating:	3							
Seq	Hethod	Oba A	gency	Spawn Stg	Wind	Weather	Water		z V1a.	Bottom	Sun Angle	Distance
216	6	DS	ADFG	3	1	2	1		1	2	1	30
		Live			Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinoo	k Chin	ook Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Coho	Coho
_	101	7	4	4 152	82	G	Ó	0	0	0	0	0
	102	2	9	0 44	0	Q	0	0	Q	0	0	0
	103		4	0 6	٥	a	0	0	0	0	0	0
	104		0	0 0	0	0	0	0	0	a	0	0
	105		0	0 0	0	0	0	0	0	0	0	0
_	TOTAL	10			62	<del></del>						

Began 5 miles above Shoeleather Creek, ended at mouth. Rating=3 because of late sirvey. Hany abandoned king redds. Judging by the number of redds, 200 female chinook may have spawned with a total escapement of around 600 chinook. C-172RG.

7/27/86	Qua	lity	0.8	35	Rating:	2							
Seq	Hethod	Qbs	Agency	, sp	awn Stg	Wind	Weather	Water	Vater	Vis.	Bottom	Sun Angle	Distance
108	6	DS.	ADFG		2	1	1	1		2	3	2	12
	INDEX	Liv China		Dead hinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Cobo	Dead Cobo
-	101		6	0	0	0	0 '	0	0	0	0	0	0
	102		0	G	0	0	0	G	0	0	0	0	0
	103		0	0	a	0	0	0	D	0	0	O	0
	104		D	0	a	0	C	0	0	0	0	0	0
	105		0	0	0	ė,	C	0	Đ	0	0	0	0
	TOTAL.		6			0	<del></del>	0		0		0	
	0												
								•					
7/26/87	Qua	lity:	0.9	)5	Rating:	1		· · · · · · · · · · · · · · · · · · ·					
Seq	Qua Hethod	Obs	Agency		awn Stg	Wind	Weather	Water	Water		Bottom	Sun Angle	Distance
	Hethod	_			_		Weather	Water			Sottom  2	Sun Angle	Distance
Seq 	Hethod	Obe	Agency ADFG		awn Stg	Wind 	,===			-			
Seq 	Hethod 6 INDEX	Obs DS Liv Chine	Agency ADFG	Dead Shinook	1 Chinook Redd	Wind 1 Live Chum	1 Dead	1 Live	Dead	- 1 Live	2 Dead	1 Live	15 Dead
Seq 	Hethod  6  INDEX  101 102	Obs DS Liv Chine	Agency ADFG ok C	Dead hinook 0	1 Chinook Redd	Wind 1 Live Chum	1 Dead Chum	1 Live Pink	Dead Pink	Live Sockeye	2 Dead Sockeye	1 Live Coho	15 Dead Coho
Seq	Method 6 INDEX 101 102 103	Obs DS Liv Chine	Agency ADFG	Dead hinook 0 0	1 Chinook Redd	Wind 1 Live Chum 0 0	Dead Chum	1 Live Pink	Dead Pink	Live Sockeye	2 Dead Sockeye	Live Coho	Dead Coho
Seq 	Hethod  6  INDEX  101 102 103 104	Obs DS Liv Chine	Agency ADFG	Dead hinook 0 0 0	Chinook Redd	Wind 1 Live Chum 0 0 0	Dead Chum 0 0 0	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
8eq	Method 6 INDEX 101 102 103	Obs DS Liv Chine	Agency ADFG	Dead hinook 0 0	1 Chinook Redd	Wind 1 Live Chum 0 0	Dead Chum	1 Live Pink	Dead Pink	Live Sockeye	2 Dead Sockeye	Live Coho	Dead Coho
Seq 	Hethod  6  INDEX  101 102 103 104	Obs DS Liv Chine	Agency ADFG	Dead hinook 0 0 0	Chinook Redd	Wind 1 Live Chum 0 0 0	Dead Chum 0 0 0	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho

Stream: CHINEEKLUK CREEK Drainage: HOLOKUK RIVER Latitude: 612200W Longitude: 1581900W

	•	lity:	0.8	Rating:	2							
•	Method	Obs Age		awn Stg	Wind	Weather	Water			Bettem	Sun Angle	Distance
203	6	DS AD		0	2	2	1		2	2	1	10
		Live	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
I	MDEX	Chinock	Chinook	Redd	Chum	Chum	Pink	Pink	Sockeye	Sookeye	Coho	Coho
_	101	0	0	0	0	0	0	0	0	0	0	0
	102	0	0	0	0	0	0	0	Ģ	0	0	0
	103	0	0	0	0	0	0	0	0	0	0	0
	104	Đ	0	0	0	0	0	0	0	0	0	0
	105	٥	0	0	0	0	0	0	0	0	0	0
	OTAL	0			0		0		0		0	

25

07/27/87	Qua	lity	0.8	5	Rating:	2							
Seq	Method	Oba	Agency	Sp	awn Stg	Wind	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
134	6	DS	ADFG		2	1	1	2		2	. 2	1	28
	INDEX	Liv Chine		Dead hinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	2	258	0	40	160	0	0	Ð	120	0	0	
	102		0	0	0	0	0	0	8	0	0	0	0
	103		0	Đ	0	0	D	0	6	0		0	0
	104		0	0	0	D	0	0	0	0	0	0	0
	105		0	G	a	. 0	0	0	0	0	0	0	0
_	TOTAL	2	258			180		0		120		0	

Survey began at confluence of Chikulnuk and Gemuk Crddks. Water is slightly milky colored. Water cleared progressively downstream due to addition of clear water from various cracks. C-172RG.

7/23/88	Qua	lity:	0.75		Rating	2							
δeq	Method	Obs 4	gency	Spa	wn Stg	Wind	Weather	Water			Settom	Sun Angle	Distance
210	6	DS	ADFG		2	2	2	2	-	2	2	1	30
	INDEX	Live Chisoc		ead nook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Desd Sockeye	Live Coho	Dead Coho
-	101	112	:0	5	0	940	12	0	0	170	0	0	0
	102		0	0	0	Q	0	0	0	. 0	0	a	0
	103		0	0	0	0	0	0	0	0		0	0
•	104		0	0	0	O	0	0	0	0	0	0	D
	105		0	0	0	0	0	0	0	0	0	0	0
-	TOTAL	112	:0		<del></del>	940	<del>-</del> .	C		170		0	<del></del>

Drainage: EUSKOKWIM BAY Latitude: 592500N Longitude: 1612100W

07/27/87	Qua	lity:	0.85	Ratings	2 ,							
Seq	Method	Obs Age	incy S	pawn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
135	3	KS A	)FG	2	1	1	2	-	2	2	1	4
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Cobo	Dead Coho
_	101	6	0	o o	376	7	0	0	0	0	0	0
	102 103	0	0	0	0	0	Ď	v 0	0	. 0	9	0
	104	ō	ŏ	ō	Ŏ	ō	0	ă	٥	ā	ō	0
	105	0	0	0	Đ	0	0	0	0	0	0	0
	TOTAL	6			376		0	_	0		0	
	0											

Stream: CRIPPLE CREEK

Ind	Water   Water Vis.   Bottom	Sun Angle Distance  1 100  Live Dead Coho Coho  0 0 0 0 0 0 0 0 0 0 0 0
1 3.  Live Dead Chum  0 0 0 280 0 75 0 101 0 0 0	1 2 3  Live Dead Live Dead Pink Pink Sockeye Sockeye  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 100 Live Dead Coho Coho  0 0 0 0 0 0 0 0 0 0
Chum Chum  0 0 280 0 75 0 101 0 0 0	Pink         Pink         Sockeye         Sockeye           0         0         0         0           0         0         50         0           0         0         10         0           0         0         20         0           0         0         0         0	Coho Coho 0 0 0 0 0 0 0 0 0 0
280 0 75 0 101 0 0 0	0 0 50 0 0 0 10 0 0 0 20 0 0 0 0 0	0 0 0 0 0 0 0 0
75 0 101 0 0 0	0 0 10 0 0 0 20 0 0 0 0 0	0 0 0 0 0 0
101 0 0	0 0 20 0	0 0
456	0 0 0 0	0 0
456		
•	0 80	0
ind Weather	Water Water Vis. Bottom	Sun Angle Distance
1 , 3	1 3 2	1 46
Live Dead	Live Dead Live Dead	Live Dead
Chum Chum	Pink Pink Sockeye Sockeye	Coho Coho
0 0	0 0 0 0	0 0
0 0	0 0 5 0	0 0
9 0	0 0 0 0	0 6
0 0	0 0 0 0	0 0
0 C	0 6 0 0	0 0
	0 0	0
0		
	B	

Drainage: KUSKOKWIM RIVER

DEX	Dbs Ager DH ADI Live Chinook  0 1183 106 450 0 1739 survey in	Pead Chinook 0 0 1	2 Chinook Redd  0 0 0	Wind 1 Live Chum 0 0 0 335 0	Weather 1 Dead Chum 0 0 0	Live Pink	Dead Pink		Dead Sockeye	Live Coho	Distance 200  Dead Coho  0 0
DEX DEX D1 D2 D2 D3 D4 D5 D5 D4 D5	DH ADD Live Chinook 0 1183 106 450 0	Dead Chinook	Chinook Redd	1 Live Chum 0 0 0 335	Dead Chum	Live Pink	Dead Pink 0 0 0	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
D1 D2 D3 D4 D5	0 1183 106 450 0	0 0 0 1 0	Redd 0 0 0	Chum 0 0 0 335 0	Chum 0 0 0	Pink 0 0 0	Pink  0 0 0 0	Sockeye 0 0 0	Sockeye 0 0 0	Coho 0 0	Coho 0 0
)2 )3 )4 )5 [AL	1183 106 450 0	0 1 0 0	6 0 6	0 335 0	a 0 0	0 0 0	0	0	0	0	0
)5 )4 )5 [AL	106 450 0	1 0 0	0	0 335 0	0	0	0	0	0	ō	ō
)4 )5 [AL	450 0 1739	0	0	335 0	o	ō	0	ō	0	•	-
rai.	1739	0	-	0	_	-	_	•	-	0	_
[AL	1739	<u>.</u>	0		0	0	0	0	0		0
		uspus C-		335						0	0
		USPUS C-				6		0		0	
ethod O	_	•	-	Wind	Weather	Water				Sun Angle	Distance
27 D			2	1	1	1		2	2	1	80
DEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chun	Live Pink	Dead Pink	Live Sockeye	Dead Sookeye	Live Coho	Dead Coho
01	204	0	0	1990	0	120	0	110	0	0	0
D2	1459	0	0	1722	a	o	0	55	0	G.	0
03	572	1	0	136	0	Ð	0	139	0	0	a
04	224	0	0	72	20	0	0	0	0	0	a
05	0	0	0	0	0	0	Đ	0	0	0	0
TAL	2459	-		3920		120		304		0	<del></del>
_		م مام مام	-b 20 -	f	th Home	0 alms2+	_ 0145 -	#1	Hepus	let Con-	. Waleswa
	EX L	Live EX Chinook  1 204 2 1459 3 572 4 224 5 0	Ethod Obs Agency Sp	DE   Agency   Spawn Stg	thed Obs Agency Spawn Stg Wind    DE   ADFG   2   1	thod Obs Agency Spawn Stg Wind Weather    DE ADFG 2 1 1   1	thod Obs Agency Spawn Stg Wind Weather Water  F DS ADFG 2 1 1 1  Live Dead Chinook Live Dead Live  EX Chinook Chinook Redd Chum Chum Pink  1 204 0 0 1990 0 120  2 1459 0 0 1722 0 0  3 572 1 0 136 0 0  4 224 0 0 72 20 0  5 0 0 0 0 0 0 0 0 0  AL 2459 3920 120	thed Obs Agency Spawn Stg Wind Weather Water Water  F DS ADFG 2 1 1 1  Live Dead Chinook Live Dead Live Dead  EX Chinook Chinook Redd Chum Chum Pink Pink  1 204 0 0 1990 0 120 0  2 1459 0 0 1722 0 0 0 0  3 572 1 0 136 0 0 0  4 224 0 0 72 20 0 0  5 0 0 0 0 0 0 0 0  AL 2459 3920 120	thed Obs Agency Spawn Stg Wind Weather Water Water Vis. B    DE ADFG 2 1 1 1 2	thed Obs Agency Spawn Stg Wind Weather Water Water Vis. Bottom    DE ADFG   2   1   1   1   2   2	thed Obs Agency Spawn Stg Wind Weather Water Water Vis. Bottom Sun Angla  F DS ADFG 2 1 1 1 2 2 2 1  Live Dead Chinook Live Dead Live Dead Live Dead Live  EK Chinook Chinook Redd Chum Chum Pink Pink Sockeye Sockeye Coho  204 0 0 1990 0 120 0 110 0 0  2 1459 0 0 1722 0 0 0 55 0 0  3 572 1 0 136 0 0 0 139 0 0  4 224 0 0 72 20 0 0 0 0 0  5 0 0 0 0 0 0

Drainage: BIGHPOWER CREEK/SWIFT FORK

Streem.	PTCU	DITUDO

TOTAL

11/02/83		Qua	lity	1	1.25	Rating: Spawn Stg	Wind	Westher	Water					
	Seq  117	Method  0	Obs  KG	Agency						Water Vis.		Bottom	Sun Angle	Distance
				0	- <b>-</b>	0	0	0			0	0	0	0
		INDEX	L: Chir	ve look	Dead Chinoo		Live Chum	Dead Chun	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
	-	101		ð		<b>0</b> 0	0	. 0	0	0		• 0	0	0
		102		0		0 0	0	0	0	0	(	· a	0	0
		103		Q		0 0	0	0	. 0	0		•	Đ	0
		104		0		0 0	0	0	0	0	0	0	0	0
		105		Q		0 0	0	٥	0	٥	0		0	a

Latitude: 632830N

Longitude: 1525307W

MEMO FROM LOUIE BARTON, CF DIV., FAIRBANKS TO DAN SCHNEIDERHAN, CF DIV., ANCHORAGE: A K. GRANROTA TOLD DICK BISHOP (GAME DIVISION IN FAIRBANKS) THAT FISH R. HAS COHO SALMON. FISH R. IS TRIBUTARY OF HIGHPOWER CREEK WHICH FLOWS TO SWIFT FK EUSKOKWIM R. HEAR LAKE MINCHUMINA - YOUR AREA -. (NOTE: ABOVE DATE IS DATE OF MEMO; OBSERVATION WAS PROBABLY MADE IN SEPTEMBER.)

Stream: FOG RIVER Drainage: TULUKSAK RIVER Latitude: 610500N Longitude: 1604500W

07/28/87	Qua	lity:	0.7	Rating:	3							
Seq	Method	Obs Age	nacy Sį	oswn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
138	. 3	KF AL	)FG	1	1	1	3		3	3	1	20
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Deed Coho
_							·			0		
	101 102	10 0	D 0	0	0	0	c c	0	0	0	0	ő
	103	0	0	0	0	0	0	0	0	0	0	0
	104 105	0	0	0	. 0	0	9	0	0	9	0	0
_	TOTAL	10			5		0		0	<del></del>	0	•

7/26/87	Qua	lity:	0.95	\$	Ratings	1					-		
Seq	Method	Obs .	Agency	Sp	avn Stg	Wind	Weather	Water	Water	e Vio.	Bottom	Sun Angle	Distance
140	6	DS.	ADFG	•	1	2	1	1	_,	1	1	10	31
	INDEX	Liv Chino		Dead ninook	Ghinook Redd	Live Chun	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	2	05	0	1	0	0	0	0	0	0	0	0
	102		0	0	12	0	Ö	o.	0	0	0	0	0
	103		0	0	0	0	0	0	0	0	0	0	0
	104	•	0	0	0	0	0	0	0	0	0	0	0
	165		0	0	0	Đ	0	0	0	Đ	0	0	0
-	TOTAL	2	05		· · · · · · · · · · · · · · · · · · ·	0		0		a		0	
Бeq	Hethod		Agency	Бр	evn Stg	Wind	Weather	Water	Water	: Vie.	Sottom	Sun Angle	Distance
217													
217	6	DS	ADFG		3	1	2	1		1	1	1	20
217	INDEX		ADFG	Dead inook	3 Chinook Redd	Live Chum	2 Dead Chum		Dead Pink	l Live Sockeye	1 Dead Sockeye	1 Live Coho	20 Dead Coho
-	INDEX	Live Chino	ADFG ok Ch		Chinook Redd	Live	Dead	1 Live	Dead	Live	Dead	Live	Dead
-	101 102	Live Chino	ADFG ok Ch 23	inook 11 0	Chinook Redd	Live	Dead Chum	1 Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101 102 103	Live Chino	ADFG ok Ch 23 18	inook 11 0	Chinook Redd 100 23	Live Chum	Dead Chum 0 0	Live Pink	Dead Pink	Live Sockeye	Deed Sockeye	Live Coho	Dead Coho
-	101 102 103 104	Live Chino	ADPG  ok Ch  23  18  0	11 0 0	Chinook Redd 100 23 0	Live Chum 0 0 0	Dead Chum 0 0 0	Live Pink	Dead Pink 0	Live Sockeye 0	Dead Sockeye 0	Live Coho O	Dead Coho
-	101 102 103	Live Chino	ADFG ok Ch 23 18	inook 11 0	Chinook Redd 100 23	Live Chum 0 0	Dead Chum 0 0	Live Pink	Dead Pink 0 0	Live Sockeye 0 0	Dead Sockeye 0 0	Live Coho	Dead Coho
-	101 102 103 104	Live Chino	ADPG  ok Ch  23  18  0	11 0 0	Chinook Redd 100 23 0	Live Chum 0 0 0	Dead Chum 0 0 0	Live Pink	Dead Pink 0 0 0	Live Sockeye 0 0 0	Dead Sockeye 0 0 0	Live Coho	Dead Goho

Longitude: 1613100W

Drainage: GOODNEWS RIVER

8/01/85	Qua	lity:	0.7	Rating	3							
Seq	Method	Obs A	ency S	pavn Stg	Wind '	Weather	Water		r <b>V</b> 1s.	Bottom	Sun Angle	Distance
63	6	DS A	DFG	2	3	3	1	_	3	1	2	15
		Live	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinool	Chinook	Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Coho	Coho
_	101	0		0	0	0	0	G	1723	10	0	0
	102	0		a .	0	0	0	0	0	0	Ó	0
	103	0	. 0	0	0	0	Đ	0	0	Ó	0	0
	104		. 6	0	0	0	0	0	0	0	0	0
	105	ď	·	0	0	0	0	0	0	0	0	D
	TOTAL	0	1		0	<del> </del>	0	<del></del>	1723		0	
	MODERATE	WIND AND	OVERCAST	OBSCURRED C	OUNTS.							

Seq	Method	Obs .	Agency	Sp.	ewa Stg	Wind	Weather	Water	Water	r Vis.	Bottom	Sun Angle	Distance
64	6	KS	ADFG		2	2	3	1	-	2	2	2	15
	INDEX	Liv Chino	-	ead nook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101		0	D	0	0	0	0	٥	3200	0	0	0
	102		0	0	0	a	. 0	0	Q	0	0	0	0
	103		0	D	D	0	0	0	0	0	0	0	0
	104		0	0	0	0	0	0	0	0	0	0	0
	105		0	0	0	0	Q	0	0	0	0	0	0
-	TOTAL		0			0		0		3200		0	

	Qua	lity	٥.	9	Rating:	1							
Seq	Method	Obs.	Agency	. Sp	awn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
110	6	D\$	ADFG		2	2	1	1		1	2	1	10
	INDEX	L1. Chine	_	Dead hinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sookeye	Live Cobo	Dead Coho
	101		0	0	0	0	0	0,	0	3190		0	0
	102		0	0	0	0	0	0	0	G	o.	0	0
	103		0	٥	٥	0	0	0	0 .	0	C	0	0
	104		0	0	٥	0	a	0	0	0	0	٥	a
	165		0	0	0	0	O	0	0	0	0	0	a
_	TOTAL		0			0	•	0		3190		0	
D7/15/88	Qua	lity:	0.	9	Rating	2							
Seq 	Method	Obs	Agency	Sp	awn Stg	Wind	Weather'	Water	Water		Bottom	Sun Angle	Distance
193	6	DS	ADFG		1	2	1	1		1	2	1	5
	INDEX	Liv Chine		Dead hinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeys	Live Coho	Dead Coho
_	101		0	0	0	0	0	0	C	4399	0	0	a
	102		0	0	0	0	0	Q	G	0	0	0	0
	103		0	0	0	0	0 ,	a	Q	0	0	0	0
				0	0	0	o `	0	0	0	0	0	a
	104		0	-									
	104 105		0	ā	Q	0	. 0	Q	O	0	0	0	0
			-	-	0	0	· 0	0	<u> </u>	4399		- 0	G

Stream: GOODNEWS LAKE Drainage: GOODNEWS RIVER Latitude: 596000N Longitude: 1613100W

8/03/88	Qua	lity:	0.65	Ratings	2							
Seq	Mathod	Oba A	gency i	Spawn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
218	6		ADFG	1	2	3	1		1	1	1	5
	INDEX	Live Chinool		Chinook c Redd	Live Chum	Dead Chum	Live Fink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
	101		) (	) 0	0	0	a'	0	4550		0	<u> </u>
	102	ĺ	) (	0	Q	0	0	D	0	0	0	0
	103	(	) (	0	0	0	0	0	0	0	0	0
	104	1	•	0	0	Đ	0	0	0	•	0	0
	105	(	•	0	0	0.	0	0	0	• •	0	Ū
_	TOTAL	(	)	· · · · · ·	- 0		0		4550		0	
	0											

Drainage: GOODNEWS BAY Latitude: 500700N Longitude: 1613500W

07/11/84	Qua	lity:	0.85		Rating:	2							
Seq	Method	Obs	Agency	8pa	wn Stg	Wind	Weather .	Water	Wate	r Vis.	Bottom	Sun Angle	Distance
23	6	DS	ADFG		1	2	3	1	-	1	1	1	80
	INDEX	Liv Chino		ed look	Chinook Redd	Live Chum	Dend Chun	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	4	78	0	0	2035	0	1200	0	1990	0 0	0	0
	102	1	02	Đ	0	167	ð	55	0	588	0	Đ	0
	103		8	0	0	0	0	25	0	220	0	0	0
	104		0	O .	0	a	0	0	0	2975		0	0
	105		0	0	Ó	0	0	0	0	0	0	0	0
_	TOTAL	5	8.8			2202		1280		5773	i	0	
	SURVEY B	egan at	GOODHEWS	LAKE	AND ENDER	AT RIVER	Moute.						

Stream: GOODNEWS RIVER

*	07/11/84	Qui	ility:	Ð.	. 85	Rating:	2						•	
*	Seq	Hethod	Obs	Agend	ey S	pawn Stg	Wind	Weather	Water	Wate:	r Vis.	Bottom	Sun Angle	Distance
*					-					-				
*	22	. 6	K.S	ADF	3	1	1	4	1		1	1	1	80
*														
•			Li	Ve.	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
*		INDEX	Chin	ook	Chinook	Redd	Chum	Chum	Pink	Pink	Sockey	s Sockeye	Coho	Coho
*	_													
٠		101		544	Q.	٥	0	0	0	0	4350	0 0	0	0
*		102		266	0	0	0	0	0	0	651	D 0	0	٥
*		103		0	0	0	0	0	0	0	17	5 Q	0	0
*		104		D	0	0	0	0	D	C	1600	9 0	Ó	0
*		185		Đ	0	a	0	0	0	0	- 1	B 0	0	0
*	_												_	
*	_	TOTAL		810			6		0		6775	5	٥	•
*									-			_	-	

SURVEY BEFORE PEAK. MOST SOCKEYE AND CHUMS IN THE LOWER END OF THE RIVER AND MIXED. DIFFICULT TO SEPARATE SOCKEYE AND CHUMS APART. WATER LEVEL EXTREMELY LOW. DID NOT COUNT CHUMS. SURVEYED ENTIRE RIVER.

Drainage: GOODNEWS BAY Latitude: 500700M Longitude: 1613500W

7/27/84	Qu	ality:	0.95	Rating:	. 1							
Se	Nethod	Obs Age	nc <b>y Sp</b>	awn Stg	Wind	Weather	Water	Water	r Vis.	Betten	Sun Angle	Distance
	14 6	KF AD	rg	2	1	. 2	1		1	1	1	80
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
	101	366	0	0	24481	0	0	0	0	0	Ó	0
	102 103	1033 603	25 35	0	3176 467	0·	0	G Q	70 52	0	0	0
	104 105	0	0	0	0 0	· 0	0 0	0	12685 0	0	0	D. O
	TOTAL	2002			28124		. 0		12807		0	
	104 ONE	BROWN BEAR	. 104 IS	COODNENS IT	AKK AND INL	ET STREAM.	KINGS AT S	PAMM STA	AGE 2, CE	DM 1, BOCK	EYR 1.**	

Stream: GOODNEWS RIVER

8/26/84	Qua	lity:	0.75		Rating:	3							
Seq	Method	Obe .	Agency	Spa	wn Stg	Wind	Weather	Water	Wate	r Vis.	Bottom	Sun Angle	Distance
25	6	DS	ADFG		1	2	3	1	-	2	2	1	70
	INDEX	Live Chino		Pead inook	Chinook Redd	Live Chun	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
	101		0	0	0	0	Ó	0	G	0	) 0	32670	0
	102		52	0	0	0	a	0	6	0	0	9520	0
	103		D	D	o	0	0	0	0	100	0	1735	0
	104		0	0	0	0	0	0	0	0	) 0	0	0
	105		0	0	o	0	0	0	0	0	9 9	0	0
_	TOTAL		52			0		0		100	)	43925	

09/04/84	Qua	lity:	1.		Rating	1							
Seq	Method	Obs A	gency	8pa	wn Stg	Wind	Weather	Water			Botton	Sun Angle	Distance
20	1	X.F	ADFG		9	1	i	1	-	1	1	1	60
		Live	D	ead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinoo	k Chi	nook	Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Coho	Cobo
-	101		0.	0		4001	0	0	0		) 0	11880	9
	102		4	0	0	100	a	1000	0	0	0	4488	a
	103		0	0	0	0	0	0	0	11	. 0	5090	0
	104		0	0	Q	0	0	0	0	0	0	0	0
	105	(	0	0	0	0	Đ	0	0	0	0	o	0
-	TOTAL		4			4101		1000		11		21456	

Stream: GOODNEWS RIVER

THE TAIL WIND HAD A SLIGHTLY ADVERSE EFFECT ON SURVEY SINCE WE MISSED SOME TIGHT TURNS. THE RIVER IS BEST DESCRIBED AS LITTERED WITH CARCASSES. THEY WERE EVERYWHERE.

07/25/85	Qua	lity:	0.8	Rating:	3 '	· · · · · ·						
Seq	Method	Oba A	gency S	pawn Stg	Wind	Weather	Water	Water	r Via. I	Bottom	Sun Angle	Distance
. 83	6	KS .	ADFG	1	3	3	1		1	1	2	80
	INDEX	Live Chinool		Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	170	6 D	0	2875	0	0	0	0	0	0	0
	102	81	B 0	6	550	.ů	0	0	45	0	0	0
	103	84	B 0	G	5	0	0	. 0	67	a	D	0
	104	(	0 0	a	0	a	0	0	2468	0	0	0
	105	•	g 0	Q	0	Q	0	0	0	a	. 0	D
_	TOTAL	35	,		3430		0		2580		a	

STRONG SW WINDS OF 28-25 MPH AFFECTED COUNTS. LOWERE PORTION OF RIVER CLEAR, UPPER PORTION (35%) HAD 90 PERCENT CLOUD COVER. COMBINED WITH A POOR PILOT MADE SURVEY POOR.

Latitude: 500700M Longitude: 1613500W

460

Drainaga:	CAARNEUS	RAY

Stream: GOODNEWS RIVER

TOTAL

2273

8/01/85	Qua	lity:	0.75	Rating:	2		•					
Seq	Nethod		ncy Sp	awn Stg	Wind	Weather	Water		Vis.	Bottom	Sun Angle	Distance
62	6		FG	2	2	3	1	-	2	2	2	70
		Live	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinook	Chinook	Redd	Chum	Chum	Pink	Pink	Bockeye	Sockeye	Coho	Coho
-	101	810	0	G	1080	0	0	0	150		70	0
	102	2358	0	G	3080	0	0	G	797	_	-	0
	103	367	Ó	G	255	0	0	O	473		_	0
	104	0	0	0	0	0	0	0	. 0	_	-	0
	105	0	Đ	0	0	0	0	0	Q	0	Q	0
-	TOTAL	3535	•		4415		0		1420		70	
	TOURD DT	TOB UAS 011	mweven men	PD AD-71-111-1		trabes br		MRV UTGE	7 6617773.17	AREAG OF I	nith emoiron	•
08/01/95			RVEYED UND	ER OPTIMUM	COMDITIONS	. UPPER RI	VER WAS CLO	WDY WITE	i Several	AREAS OF I	rain shouer	<b>5.</b>
Seq		lity: Obs Age	0.75 ncy Sp	Rating:	2 Wind	Weather	Water	Water	: Via.	Botton	Sun Angle	Distance
	Qua	lity: Obs Age	0.75	Ratings	2	· · · · · · · · · · · · · · · · · · ·		<u> </u>	: Via.			<u>, – </u>
Seq	Qua	lity: Obs Age	0.75 ncy Sp	Rating:	Vind	Weather	Water	Water	. Via.	Botton	Sun Angle	Distance
Seq	Qua	Obs Age	0.75 noy Sp 	Rating:	2 Wind  2	Weather	Water	Water	: Via.	Bottom  2 Dead	Sun Angle	Distance
Seq	Qua Mathod 6 INDEX	Obs Age	0.75 noy Sp  PG Dead	Rating:	Wind 2 Live Chum	Weather 3 Dead	Water 1	Wate:	Vis. 2 Live Sookeye	Bottom 2 Dead Sockeye	Sun Angle	Distance  70 Dead
Seq	Qua Mathod 6 INDEX	Obs Age	0.75 ney Sp PG Dead Chineek	Rating:  swn Stg  2  Chinook Redd	2 Wind  2 Live Chun 540 1920	Weather  3  Dead Chum	Water 1 Live Pink 0	Water  Dead Pink	Vis. 2 Live Sookeye	Bottom 2 Dead Sockeye	Sun Angle 2 Live Coho	Distance  70 Dead Cohe
Seq	Qua Mathod 6 INDEX	Obs Age	0.75 noy Sp PG Dead Chinook	Rating:  awn Stg  2 Chinook Redd	Wind 2 Live Chum	Weather 3 Dead Chum	Water 1 Live Pink	Water  Dead Pink	Vis. 2 Live Sookeye	Bottom 2 Dead Sockeye	Sun Angle 2 Live Coho	Distance  70 Dead Coho

UPPER PORTION OF RIVER AND LAKES WAS SURVEYED UNDER POOR TO FAIR CONDITIONS. LOWER FORTION OF RIVER UNDER EXCELLENT CONDITIONS. C-172RG.

Drainage: GOODNEWS BAY Latitude: 500700N Longitude: 1613500W

7/26/86	Q	uality		0.9	Rating:	2	,						
Se	q Ketho	d Obs	Agen	oy Si	pawn Sts	Wind	Weather	Water	Wate	r Via.	Bottom	Sun Angle	Distance
1	11 6	DS	ADF	_	2	2	1	1		2	1	1	80
	INDEX		ive nook	Dead Chinook	Chinook Redd	Live Chum	Dead Chain	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
	101		155	0	<u> </u>	8750	0	200	0	2880	0	6300	. 0
	102 103		613 306	0	<b>0</b>	1300 1800	D .	50 0	0	1750 1140		0 0	0 a
	104		Œ	Ō	0	0	0.	Ö	Ō	0	0	0	0
	105		0		0	0	0	0	0	0	0	0	0
	TOTAL		1068			11850		250		5770		6300	
	BEGAN .	AT LAKE	: ENDE	D AT BAY	•								

Stream: GOODNEWS RIVER

07/26/87	Qua	lity:	0.7	5	Rating:	3							
Seq	Method	Ob.	Agency	Spa	swn Stg	Wind	Weather	Water	Water	r Vis.	Bottom	Sun Angle	Distance
143	3	KF	ADFG		1	1	1	3		3	2	1	36
	INDEX	Li Chin	Ve ook C	Dead hinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
	101	-	267	2	0	2982	0	, 0	0	300	0	6	0
	102		37	5	D	2380	0	Đ	a	262	2 a	6	D
	103		0	0	0	. 6	0	0	0	•	) G	0	0
	104		٥	0	0	6	0	0	0	10330	0	0	0
	105		O	0	0	0	0	0	Q	(		0	0
_	TOTAL		304			5362		0		10892	<u> </u>	0	

Area 102 and 103 were counted together and reported as 102. 104 is Goodnews Lake and its inlet creek. Sockeye count is fair (2) due to their color and distribution in shallow spawning streams. Suspect many may still be in lake. Water color obscured chinook and chum salmon; therefore, survey poor (3) for those species.

Drainage: GOODNEWS BAY

07/28/87	Qua	ility:	•	1.9	Rating:	1							
Seq	Method	Obs	Agend	y Sp	awn Stg	Wind	Weather	Water		-	Botton	Sun Angle	Distance
142	6	D8	ADFG	•	2	2	1	1	_,	1	2	1	78
		Li	.ve	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chin	ook	Chinook	Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Coho	Coho
-	101	1	.050	10	0	7425	1320	0	0	741	. 0	3595	0
	102	1	800	0	0	2675	20	0	0	1976		120	0
	103		176	0	0	2003	0	0	0	2623		0	0
	104		0	0	0	0	0	0	Q	14446	s 0	0	0
	105		0	0	0	0	e.	0 .	0	•	9 0	O.	0
_	TOTAL	2	234			12103		0		19760	<u> </u>	3715	

08/21/87	Qua	lity:	0.95	R	lating	2							
Seq	Method	Obs A	Agency	Spaw	m Stg	Wind	Weather	Water	Vate	Vis.	Bottom	Sun Angle	Distance
				-						-			
141	6	DE	ADFG		1	2	1	· 1		1	1	1	52
		Live	e De	ad	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dend
	IMDEX	Chino	ok Chin	ook	Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Coho	Cobo
-	101	2:	36	57		0	. 0	100	0	310	300	10365	0
	102	:	29	20	0	Đ	D	D	0	20	. 0	498	0
	103		7	1	D	0	0	. 0	0	685	30	259	٥
	104		0	0	0	0	0	0	0	5397	900	0	٥
	105		0	0	0	Đ	Û	0	0	0	0	0	0
_	TOTAL	2	72			•	-	100		6402	·-·	11122	

	dra	lity:	0.9	Rating	2							
Seq	Method	_	ency S	ewn Stg	Wind	Weather	Weter	Wate	r Vis.	ottom	Sun Angle	Distance
192	6		DFG	1	2	1	1	_	1	2	1	60
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Cobo	Dead Coho
	101	273	0	0	2220	0	275	0	995	0	0	0
	102	173	0	0	310	12	0	0	317	0	0	0
	103	38	0	0	360	0	0	0	169	0	0	0
	104	0	0	0	D	Ð	0	0	D	0	0	0
	105	D	0	D	0	0	0	C	0	0	0	0
_	TOTAL.	484	· ·		2890		275		1481		0	
/03/88	Clear, s	umny. Su Lity:	0.55	2 because :	spawn stage	=1. Began	at Goodnews	Lake a	nd ended a	t mouth.	C-172BG.	
Seq		lity: Obs Ag	0.55 ency Sp	Rating:	3 Vind	Weather	Water			ottom	C-172RG.	Distance
_	Qua	lity: Obs Ag	0.55	Ratings	3					<del></del>		Distance
Seq	Qua Hethod	lity: Obs Ag	0.55 ency Sp	Rating:	3 Wind	Weather	Water	Hate:	r Vio.   1	ottom  2	Sun Angle	25
Seq	Qua Hethod	lity: Obs Ag	0.55 ency Sp	Rating:	Wind	Weather	Water			otton	Sun Angle	
Seq	Qua Mathod 6 INDEX	lity: Obs Ag  EF A  Live Chinook	0.55 ency Sp OFG Dead Chinook	Rating:	3 Wind  3 Live	Weather 	Water 1	Water	r Vis. I	ottom  2 Dead	Sun Angle	25 Dead
Seq	Qua Mathod 6 IMDEX	lity: Obs Ag  EF A  Live Chinook	0.55 ency Sp OFG Dead Chinook	Rating:  ewn Stg  2  Chinook  Redd	3 Wind 3 Live Chun	Weather 4 Dead Chust	Water 1 Live Pink	Water  Dead Pink	r Vis. 1 4 Live Sockeye	Dead Sockeye	Sun Angle  1  Live Coho	25 Dead Goho
Seq	Qua Mathod 6 IMDEX 101 102 103	lity: Obs Ag  EF A  Live Chinook  184  135 318	0.55 ency Sp OFG Dead Chinook	Rating:  eawn Stg  2  Chinook  Redd	3 Wind 3 Live Chun	Weather 4 Dead Chust	Water 1 Live Pink	Water Dead Pink	r Vis. 1 4 Live Sockeye	Dead Sockeye	Sun Angle  1 Live Coho	25 Dead Goho
Seq	Qua Mathod 6 INDEX 101 102 103 104	lity: Obs Ag  EF A  Live Chinook  184 135 318	0.55 ency Sp Dead Chinook 7 53 36	Rating:  eawn Stg  2 Chinook Redd  0 0	3 Wind  3 Live Chun 50 1250 2546	Weather  4  Dead Chuss  3  53  36  0	Uater 1 Live Pink 0 0 0	Water Dead Pink 0	Live Sockeye	Dead Sockeye	Sun Angle  1 Live Coho 0 0 0	25 Dead Goho
Seq	Qua Mathod 6 IMDEX 101 102 103	lity: Obs Ag  EF A  Live Chinook  184  135 318	0.55 ency Sp OFG Dead Chinook 7 53	Rating:  awn Stg  2  Chinook  Redd  0  0	3 Wind  3 Live Chun 50 1250 2546	Weather  4  Dead Chust  3  53  36	Water 1 Live Pink 0 0	Water Dead Pink 0	r Vis. 1	Dead Sockeye	Sun Angle  1 Live Coho  0 0	25 Dead Goho
Seq	Qua Mathod 6 INDEX 101 102 103 104	lity: Obs Ag  EF A  Live Chinook  184 135 318	0.55 ency Sp Dead Chinook 7 53 36	Rating:  eawn Stg  2 Chinook Redd  0 0	3 Wind  3 Live Chun 50 1250 2546	Weather  4  Dead Chuss  3  53  36  0	Uater 1 Live Pink 0 0 0	Dead Pink 0 0	Live Sockeye	Dead Sockeye	Sun Angle  1 Live Coho 0 0 0	25 Dead Goho 0 0 0

Stream: GOODNEWS RIVER

Stream: GRANITE CREEK Drainage: TULUKSAK RIVER - Latitude: 605830N Longitude: 1600550W

10/14/85	Qua	lity:	0.55	Rating:	3							
Seq	Method	Obs Age	ney Sp	awn Stg	Wind	Weather	Water	Wate	r Via.	Bottom	Sun Angle	Distance
73	7	KP AD	)FG	3	2	4	2	_,	3	3	3	5
	INDEK	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101	0	0	0	0	O	G	0	0	0	3	a
	102	0	0	0	0	0	0	Ó	0	0	0	0
	103	0	0	0	0	0	0	0	0	0	0	0
	104 105	0	0	0	0	, Q D	0	0	0	0	0	.0
7	TOTAL	0		<del></del>	0	<del></del>	0		0		3	<del> </del>

Latitude: 614045% Longitude: 1571000W

7/16/84	Qua	lityı	0.7	75	Rating:	2							
Seq	Hethod	Oba	Agency	, 6p	avn Stg	Wind	Weather	Water		vis.	Bottom	Sun Angle	Distance
27	6	DS.	ADFG		1	2	2	2		2	2	1	120
	INDEX	Liv Chino	-	Dead Thinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Li <del>ve</del> Coho	Dead Coho
-	101	2	49	0	0	24964	0	0	0	400	0	0	0
	102		46	0	Đ	3755	0	ø	0	50		0	0
	103	2	53	0	0	5750	0	0	٥	51	0	0	0
	104		95	0	0	1000	0	0	0	0	0	0	0
	105		0	0	0	0	0	O	0	0	0	0	a
-	TOTAL		43			35469		0		501		0	···· · · · ·
7/27/85		EGAN AT	LITTI D. 6		K CREEK; E	MDED AT KOO	RUKLUK WEIR						
7/27/85 Seq			··· · · · · · · · · · · · · · · · · ·				RUKLUK WEIR	Hater	Water		Bottom	Sun Angle	Distance
Seq	Qua Method	lity: Obs	D. d		Rating:	3 Wind	Weather	Water				<del>-</del>	
Seq	Qua Method	Obs	D. d Agency  ADFG		Rating:	3 Wind	Weather	Water		-	2 Dead		
Seq	Qua Method . 6 INDEX	Obs DS	D. d Agency  ADFG	Sp.	Rating: awm Stg  Ghinook	3 Wind	Weather 3	Water 3	Dead	3 Live	2 Dead	2 Live	20 Dead
Seq	Qua Method 6 INDEX	Obs DS	D. d Agency ADFG	Dead hinook	Rating: awn Stg 3 Chinook Redd	3 Wind 1 Live Chum	Weather  3  Dead Chum  1500 0	Hater 3 Live Pink 0	Dead Pink 0	Live Sockeye	2 Dead Sockeys	2 Live Coho	20 Dead Coho
Seq	Qua Method 	Obs DS	D. 6 Agency  ADFG e ok (	Dead hinook	Rating: awn Stg  3 Chinook Redd	1 Live Chum 4680 0	Weather  3  Dead Chum  1500 0	Hater 3 Live Pink 0 0	Dead Pink	Live Sockeye	2 Dead Sockeys 0 0	2 Live Coho	20 Dead Coho
Seq	Qua Method 	Obs DS	D. 6 Agency  ADFG e ok (	Dead hinook	Rating: awn Stg  3 Chinook Redd  0 0 0	1 Live Chum 4680 0	Weather  3  Dead Chum  1500 0 0	Hater 3 Live Pink 0 0 0	Dead Pink	Live Sockeye	2 Dead Sockeys 0 0	Live Coho	20 Dead Coho
Seq	Qua Method 	Obs DS	D. 6 Agency  ADFG e ok (	Dead hinook	Rating: awn Stg  3 Chinook Redd  0 0	1 Live Chum 4680 0	Weather  3  Dead Chum  1500 0	Hater 3 Live Pink 0 0	Dead Pink 0 0	Live Sockeye	2 Dead Sockeys 0 0	2 Live Coho	20 Dead Coho
	Qua Method 	Obs DS	D. 6 Agency  ADFG e ok (	Dead hinook	Rating: awn Stg  3 Chinook Redd  0 0 0	1 Live Chum 4680 0	Weather  3  Dead Chum  1500 0 0	Hater 3 Live Pink 0 0 0	Dead Pink	Live Sockeye	2 Dead Sockeys 0 0	Live Coho	Dead Coho

Stream: HOL	ITNA RIVER	Drainage:	Kuskokmim	RIVER
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7/30/85	Qua	lity:	0.6	Rating:	3							
Seq	Kethod	_	ency S	pawn Stg	Wind	Weather	Water	Water	Via.	Bottom	Sun Angle	Distance
96	6		DFG	3	2	3	3	_,	3	2	1	23
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chun	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	C	0	0	0	<b>O</b>	0	0	C	G	0	0
	102	0	0	0	0	0	0	0	4	0	0	Đ
	103	0	0	0	۰.	120	0	0	0	•	0	0
	104	145		0	370	450	0	0	300	50	0	0
	105	Q	0	0	0	a	0	0	0	0	0	0
_	TOTAL	145			370		0		300	······································	G.	
	WATER HI			INT CLOUD C		RE 103 AND	_	<b>3D.</b>	300			
17/27/86				Rating:		RE 109 AND	_	<b>30.</b>	300			
Seq		GE, MUDDY	. 75 PERCI	Rating:	OVER. ENTI	Weather	104 SURVEYE	Water	Vis.	Botton	Sun Angle	Distance
	Qua Method	GE, MUDDY	. 75 PERCI	Rating:	OVER. ENTI		104 SURVEYE		Vis.			Distance
Seq	Qua Method	Obs As	0.8	Rating:	Wind	Weather	Water	Water	: Vis.  2	Bottom 2	Sun Angle	 28
Seq	Qua Method	GE, MUDDY	0.8 ency Sp	Rating:	OVER. ENTI	Weather	104 SURVEYE	Water	Vis.	Bottom2 Dead	Sun Angle	
Seq	Qua Hethod	Obs As	0.8 ency Sp	Rating:	Wind  Live	Weather 1 Dead	Water 3	Water  Dead	Vis.	Bottom2 Dead Sockeye	Sun Angle	 28 Dead
Seq	Qua Method  6	Obs Ag  Live Chinook	0.8 ency Sp DFG Dead Chinook	Rating:  pawn Stg  2  Chinock  Redd	Vind  Live Ghum	Weather 1 Dead Chum	Water 3 Live	Water  Dead Pink	Vis. 2 Live Sockeye	Bottom  2 Dead Sockeye	Sum Angle  1 Live Coho	28 Dead Coho
Seq	Qua Method  6 IMDEX	Obs Ag  Live Chinook	0.8 ency Sp DFG Dead Chinook	Rating: pawn Stg 2 Chinook Redd	Wind  Live Chum	Weather 1 Dead Chum	Water 3 Live Pink	Hater  Dead Pink	Vis. 2 Live Sockeye	Bottom 2 Dead Sockeye 0	Sum Angle  1 Live Coho	28 Dead Coho
Seq	Qua Method  6 IMDEX 101 102	Obs Ag  Live Chinook	0.8 ency Sp DFG Dead Chinook	Rating:  pawn Stg  2  Chinook Redd  0	Wind  Live Ghum	Weather  1 Dead Chum	Water 3 Live Pink 0	Dead Pink	Vis. 2 Live Sockeye	Bottom 2 Dead Sockeye 0 0	Sum Angle  1 Live Coho	28 Dead Coho
Seq	Qua Method 6 IMDEX 101 102 103	Obs Ag  Live Chinook	O.8  ency Sp  DFG  Dead Chinook	Rating:  pawn Stg  2 Chinook Redd  0 0	2 Wind  1 Live Chum  0 750 1360	Weather  1 Dead Chum	Water  3 Live Pink  0 0	Pead Pink G	Vis. 2 Live Sockeye 0 430 145	Bottom2  Dead Sockeye  0 0 0	Sum Angle  1 Live Coho	28 Dead Coho 0 0
	Qua Mathod 6 IMDEX 101 102 103 104	Obs Ag  Live Chinook	O.8 ency Sport	Rating:  pawn Stg  2 Chinook Redd  0 0 0	2 Wind  1 Live Ghum  0 750 1360	Weather  1 Dead Chum  0 0 0	Water  3 Live Pink  0 0	Pead Pink G G G	Live Sockeye	Bottom2  Dead Sockeye  0 0 0	Sun Angle  1 Live Coho 0 0 0	28 Dead Coho 0 0 0

Latitude: 614045N Longitude: 1571000W

BEGAN AT CONFLUENCE OF KOGRUKLUK AND CHUKOMAN RIVERS. ENDED AT HOGAMIUT. ELAPSED TIME 20 MINUTES. C-172RG.

Lat1tude: 614045N

Longitude: 1571000W

Seq	Kethod	Obs As	ency Sp	awn Stg	Wind	Weather	Water	U-+-	r Vla. I	Bottom	Sun Angle	Distance
						~					our write	PIBLANCE
144	i 6	DS A	DFG	0	1	. 1	4		4	3	1	5
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101	0	0	0	0	0	0	0	0	0	0	0
	102	0	0	0	0	· o	0	0	Ø	Q	0	0
	103	0	0	0	0	0	0	D	0	0	a	0
	104	0	0	0	0	0	Đ	0	0	0	0	0
	195	0	0	0	a	0	0	0	0	0	0	0
-	TOTAL	0			0		0		0		0	
/31/87		o turbid	for survey	in area 10:	3. C-172RG					·		
/31/87 Seq		lity: Obs Ag	0.7			Weather	Water		r Vis. 1	iottom	Sun Angle	Distance
Seq	Que Hethod	lity: Obs Ag	0.7	Rating:	3 Wind	Weather	_			iottom  3	Sun Angle	Distance
Seq	Que Hethod	lity: Obs Ag	0.7	Rating:	3 Wind	Weather						
Seq	Qua Mathod  6 INDEX	Obs Ag  DS Ai  Live Chinook	0.7 ency Sp DFG Dead Chinook	Rating: awn Stg 3 Chincok	Wind 1 Live Chum	Weather 2 Dead	3 Live	Dead	2 Live	3 Dead	1 Live	56 Dead
Seq	Qua Method  6 INDEX	Obs Ag  DS Ai  Live Chinook	0.7 ency Sp DFG Dead Chinook	Rating: awn Stg  3 Chinook Redd  0 0	3 Wind  1 Live Chum	Weather 2 Dead Chum	3 Live Pink	Dend Pink 0	Live Sockeye	3 Dead Sookeye	l Live Coho	56 Dead Goho
Seq	Qua Method 	Obs Ag  DS Ai  Live Chinook  58 30 377	0.7 enay Sp DFG Dead Chinook	Rating: awn Stg  3 Chinook Redd  0 0	3 Wind  1 Live Chum 3901 100 632	Weather 2 Dead Chum 135 0 48	3 Live Pink	Dead Pink 0 0	2 Live Sockeye	3 Dead Sockeye	Live Coho	56 Dead Goho 0 0
Seq	Qua Method 	DS As Live Chinook	0.7 ency Sp Dead Chinook	Rating: awn Stg  3 Chinook Redd  0 0 0	3 Wind  1 Live Chum 3901 100 632 0	Weather  2  Dead Chum  135 0 48	January Strategy Stra	Dend Pink 0 0	Live Sockeye 20 0 362	Dead Sockeye	Live Coho	56 Dead Goho 0 0 0
Seq	Qua Method 	Obs Ag  DS Ai  Live Chinook  58 30 377	0.7 enay Sp DFG Dead Chinook	Rating: awn Stg  3 Chinook Redd  0 0	3 Wind  1 Live Chum 3901 100 632	Weather 2 Dead Chum 135 0 48	3 Live Pink	Dead Pink 0 0	Live Sockeye 20 0 362	3 Dead Sookeye	Live Coho	56 Dead Goho 0 0
Seq	Qua Method 	DS As Live Chinook	0.7 ency Sp Dead Chinook	Rating: awn Stg  3 Chinook Redd  0 0 0	3 Wind  1 Live Chum 3901 100 632 0	Weather  2  Dead Chum  135 0 48	January Strategy Stra	Dend Pink 0 0	Live Sockeye 20 0 362	Dead Sockeye	Live Coho	56 Dead Goho 0 0 0

7/31/85	•	hality:	0.	.85	Rating:	2		•					
Se	q Meth		Agend	у Бр	awn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
	65 6	DS	ADFO	;	3	2	1	.1	-	2	2	1	20
	INDEX		ive nook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Cobo
	101		81	0	0	266	Q	0	û	0	0	0	0
	102		54	0	0	104	0	0	0	0	0	0	0
	103 104		0	0	0	0 0	0	0	0	0	. 0	0	0
	105		0	0	0	a	o	ő	ō	0	ŏ	ō	ō
	TOTAL.		135	<del></del>	·····	370	<del>,</del>	0		0	45.	0	
		101 AND		RVEYED C	oquetely.								

07/31/85	Qua	lity:	0.75	i	Ratings	2							
Seq	Method	Obs	Agency	Spi	wn Stg	Vind	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
84	6	KS	ADFG		2	2	2	2		2	2	1	20
	INDEX	Liv Chino	-	Dead inook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Li <del>ve</del> Coho	Dead Coho
-	101		27	0	Ó	295	0	0	0		0	0	0
	102		21	0	0	41	0	٥	0	0	0	0	0
	103		0	0	0	0	0	0	0	0		0	0
	104		0	0	0	0	0	0	0	8	• 0	0	0
	105		0	0	0	0	0	0	0	O	0	0	q
-	TOTAL	<del> </del>	48			336		0		0		0	

LOWER PORTION OF RIVER WAS CLEAR WATER AND SKY. UPPER PORTION OF RIVER WAS CLOUDY. WATER WAS CLEAR, BOWEVER SOME FISH MAY HAVE BEEN MISSED DUE TO NOT ENOUGH LIGHT. C-172RG.

Drainage: KUSKOKWIM RIVER Latitude: 613215N Longitude: 1583535W

Stream: HOLOKUK RIVER

/27/86	Qua		0.85										
Seq	Method	Obs.	Agency	Sp	awn Stg	Wind	Weather	Water	Water	r Via.	Bottom	Sun Angle	Distance
109	6	DS	ADFG		2	1	1	2		2	2	3	30
		Liv	·•	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chine	ok Ci	inook	Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Goho	Coho
_	101	1	00	0	0	441	0,	0	0	0	0	0	0
	102		0	Ð	Ð	٥	O	0	0	0	0	0	6
	103		0	0	0	0	0	0	0	0	0	0	0
	104		0	G	0	0	0	D	٥	0	0	0	0
	105		0	0	0	0	0	0	0	0	0	0	0
-	TOTAL	1	00			441		0		0		٥	
26/87		CHIME	KLUK CE		MFLUENCE.	ENDED AT M	OUTH. ELAP	SED TIME 24	MINUTES			<del></del>	
26/87 Seq		lity					OUTH. ELAP	SED TIME 24			Botton	Sun Angle	Distance
8eq	Qua Hethod	Obs	0.95		Rating:	1 Wind	Weather	Water	Water	· Vis.			
Seq	Qua	lity	0.95 Agency		Rating:	1 Wind	Weather	Water	Water	· Vis.			
8eq	Qua Hethod	Obs	0.93 Agency  ADFG	Sp.	Rating:	1 Wind	Weather	Water	Water	· Vis.			
8eq	Qua Hethod	Obs  DS	0.93 Agency  ADFG	Sp	Rating:	Wind	Weather 1	Water  1	Water	: Vis.	2 Dead	1	35
8eq	Qua Method  6 IMDEX	Obs  DS Liv Chine	0.95 Agency ADFG	Sp.	Rating: awn Stg 2 Chinook Redd	Uind  1 Live Chum	Weather 1	Water 1	Wate:	Vis.	2 Dead Sockeys	1 Live	35 Dead
8eq	Qua Method 6 INDEX	Obs  DS Liv Chine	0.95 Agency ADFG e ok Ch	Sp. Dead inook	Rating:  awn Stg  2 Chinook Redd	Uind  1 Live Chum	Weather 1 Dead Chum	Water 1 Live Pink 0	Water  Dead Fink	l Live	2 Dead Sockeye	1 Live Coho	35 Dead Coho
8eq	Qua Method 6 IMDEX 101 102 103	Obs  DS Liv Chine	0.95 Agency ADFG e ok Ch 41 67	Sp. Dead incok	Rating: swn Stg 2 Chinook Redd 32 13	1 Wind  1 Live Chum	Weather 1 Dead Chum	Water  1 Live Pink  0 0	Dead Fink	Live Sockeye	2 Dead Sockeys 0 0	1 Live Coho	35 Dead Coho
8eq	Qua Method 6 INDEX 101 102 103 104	Obs  DS Liv Chine	0.95 Agency ADFG e ok Ch 41 67 0	Sp. Dead incok	Rating:  awn Stg  2 Chinook Redd  32 13 0	1 Wind 1 Live Chum 1400 190 0	Weather 1  Dead Chum  12 0 0	Water  1 Live Pink  0 0 0	Dead Fink	Live Sockeye	Dead Bookeys 0 0	1 Live Coho	35 Dead. Coho 0 0 0
8eq	Qua Method 6 IMDEX 101 102 103	Obs  DS Liv Chine	0.95 Agency ADFG e ok Ch 41 67	Sp. Dead incok	Rating: swn Stg 2 Chinook Redd 32 13	1 Wind  1 Live Chum	Weather 1 Dead Chum	Water  1 Live Pink  0 0	Dead Fink	Live Sockeye	Dead Bookeys 0 0	1 Live Coho	35 Dead Coho
8eq	Qua Method 6 INDEX 101 102 103 104	Obs  DS Liv Chine	0.95 Agency ADFG e ok Ch 41 67 0	Sp. Dead incok	Rating:  awn Stg  2 Chinook Redd  32 13 0	1 Wind 1 Live Chum 1400 190 0	Weather 1  Dead Chum  12 0 0	Water  1 Live Pink  0 0 0	Dead Fink	Live Sockeye	Dead Sockeye 0 0 0	1 Live Coho	35 Dead. Coho 0 0 0

Stream: BOLOKUK RIVER Drainage: KUSKOKWIM RIVER Latitude: 613216M Longitude: 1583536W

07/20/86	Qua	lity:	0	.7	Rating:	3							
Seq	Method	Obs DS	Agency	<b>y</b> 5p.	evn Stg	Wind	Weather	Water		r Vie.	Bottom 	Sun Angle	Distance
202	6	DD	ADIG		2	2	2	1		•	2	1	28
	INDEX	L1 Chin		Dead Chinook	Chinook Redd	Live Chum	Dead Chun	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101		20	0	0	260	5	0	0		) 0	0	0
	102		37	0	0	240	8	٥	0	0		0	0
	103		0	0	0	0	0	o	0		0	0	0
	104		0	0	0	0	٥	0	0	0		0	0
	105		D	Đ	0	0	0	o	0	C	) 0	0	0
	TOTAL		57			500		0		-	)	0	

Sum was shining straight down the river causing glare from most sircraft positions. Survey-3 due to glare. Considerable smoke hase present. Began at mouth, ended at Chineekluk Creek. C-172RG.

Stream: INDIAN CREEK Drainage: KUSKOKWIM BAY Latitude: 591800N Longitude: 1615830W

7/27/87	Qua	lity:	0.85	Rating:	2							
Seq	Method	_		awn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
146	3		DFG	2	1	1	2		2	2	1	5
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	0	0	0	1235	57	0	0	D	0	0	C
	102	0	0	0	0	0	0	0	0	0	0	0
	103 104	0	0	G.	0	. 0	0	0	0	0	0	0
	105	0	0	٥	. 0	0	0	9	0	0	0	0
-	TOTAL	0		· · ·	1235		o		0		0	
	0											

Stream: JACKSMITH CREEK Drainage: KUSKOKWIM BAY Latitude: 592900N Longitude: 1614500W

07/27/87	Qua	lity:	0.85	Rating	2 ,							
Seq	Method	Obs Age	ncy Sp	awn Stg	Wind	Weather	Water			lottom	Sun Angle	Distance
147	3	KS AL	PG	2	1	1	2	-	2	2	1	6
	IMDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Bookeye	Dead Sockeye	Live Coho	Dead Coho
-	101	12	0	0	156	0	0	0	0	0	0	0
	102 103	0	0	0	0	0	. 0	0	0	0	0 0	0
	104	ő	ō	ō	ō	ō	ů	ă	ō	ō	ō	0
	105	Đ	0	0	0	0	0	ů	0	0	0	0
_	TOTAL	12			136	,	0		0		0	
	0											

Stream: KANEKTOK RIVER Drainage: KUSKOKWIM BAY	Latitude: 594500N	Longitude: 1615600W
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6/21/84	Qua	Lity:	0.7	1	Rating:	3							
Seq	Method	Obs A	gency	Spar	m Stg	Wind	Weather	Water	Wate	e Via.	Bottom	Sun Angle	Distance
28	6	KP .	ADFG	•	1	1	3	2	_	3	2	1	20
	INDEX	Live Chinoo			Chinook Redd	Live Chum	Dead Chun	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	12	3	0	0	925	0	0	0	150	0	0	0
	102 1 <b>03</b>		D	0	0	0	0	<b>Q</b>	0	0	9	0	0
	104 105		D 0	0	0	0 0	0	0	0	0	0	0	0
	TOTAL	12	3			925		0		150	<u>: -</u> ,	0	
	SURVEYED	LOWER 2	O MILES.	SEVE	RAL SCHOOL	LS OF SMELT	•						•
06/28/84	Qua	lity:	0.75	7	lating:	2		•					
Seq	Method	Ob- A	ency	g	m Sta	Wind	Weather	Water	U	. Vie.	Bottom	Sun Angle	Distance

k h	06/28/84	Qua	lity:	0.	75	Rating:	2		•					
k	Seq	Method	Obs	Ageno	y Sp	awn Stg	Wind	Weather	Water	Water	r Vie.	Bottom	Sun Angle	Distance
					•									
	29	6	KF	ADFG	ł	1	1	. 3	2		2	2	1	25
			Li	. <b>Ye</b>	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
		INDEX	Chin		Chinook	Redd	Chum	Chum	Pink	Pink	Sockeye			Coho
	_										<b>,</b>			
	_	101		201	1	0	0	0	0	0		0	Đ	0
		102		a	0	0	a	G	0	0		0	0	0
		103		0	0	0	0	o ·	0	0		) 0	0	0
		104		0	0	0	0	C	O.	G	(	9 0	9	0
		105		0	0	0	0	C	٥	G		0	0	0
	_													
		TOTAL		201			0		٥		(	)	0	

QUICKUMAGUILA CR. WAS END POINT. KING SEEN TO THE VIGINITY OF FIRST 800 FOOT HILL JUST TO MORTH OF RIVER. NO SPORT FISHING ACTIVITY AT GUIDE CAMP IN FOOTHILLS VISIBLE.

Stream: KANEKTOK RIVER

Longitude: 1615600W

	qua	lity:	0.85	Rating:	3							
Seq	Method	-	ncy Sp	awn Stg	Wind	Weather	Water	Water		Bottom	Sun Angle	Distance
30	6		FG.	1	1	3	1		2	1	1	37
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101	777	2	0	0	0	0	0	0	0	0	0
	102	0	0	0	Đ	0	0	0	0	0	0	0
	103	0	0	0	0	0	0	0	0	0	_	0
	104	0	0	0	٥	0	0	0	0	0	0	0
	105	0	0	Û	0	0	O	0	0	0	0	0
_	TOTAL.	777			0		0		0		0	
/12/84	OLUMAGWI	LUTE RIVER			DCKEYE, PRO	BABLY SOME (	CHIMOOK. I	PIECONTIN	UED SURV	EY DUE TO	THUNDERSTOR	H AT
/12/84	OLUMAGWI Qua	LUTE RIVER	0.85	Ratings	2		,		<u></u>			
Seq	OLUMAGWI	LUTE RIVER	0.85 ney Sp		2 Wind	Weather	Water	Vate:	Vio.	Sottom	THUMDERSTOR	Distance
	OLUMAGWI Qua	LUTE RIVER	0.85 ney Sp	Rating:	2 Wind	Weather	Water	Water	Vio.	Bottom	Sun Angle	Distance
Seq	· Qua	LUTE RIVER Lity: Obs Age DS AD	0.85 noy Sp  FG Dead	Rating: awn Stg  1 Chinook	Wind 2 Live	Weather 1	Water  1 Live	Water 	Vio. 1	Sottom2 Dead	Sun Angle	Distance 150 Dasd
Seq	· Qua	LUTE RIVER	0.85 noy Sp  FG	Rating: awm Stg	2 Wind  2	Weather 1	Water  1	Water	¥10. 1 - 2	Sotton  2	Sun Angle	Distance
Seq	· Qua	LUTE RIVER Lity: Obs Age DS AD	0.85 noy Sp  FG Dead	Rating: awn Stg  1 Chinook	Wind 2 Live	Weather 1	Water  1 Live	Water 	Vio. 1	Sottom2 Dead	Sun Angle	Distance 150 Dasd
Seq	· Qua Nethod 6	LUTE RIVER Lity:  Obs Age  DS AD  Live Chinook	0.85 nay Sp FG Dead Chinook	Rating: awm Stg  1 Chinook Redd	Vind  2 Live Chum	Weather 1 Dead Chose	Water  1 Live Pink	Water  Dead Pink	Vis. 1 2 Live Sockeye	Octom  2  Dead Sockeye	Sun Angle  1  Live Cohe	Distance 150 Dasd Coho
Seq	· Qua Nethod 6 INDEX	LUTE RIVER Lity:  Obs Age  DS AD  Live Chinook	0.85 nay Sp FG Dead Chinook	Rating: awn Stg  1 Chinook Redd	Wind  2 Live Chum	Weather  1  Dead Chose	Water 1 Live Pink 2460	Water Dead Pink	Vis. 1 2 Live Sockeye	Sottom 2 Dead Sockeye	Sun Angle 1 Live Cohe	Distance 150 Dead Coho
Seq	Qua Nethod 6 INDEX 101 102 103 104	LUTE RIVER Lity:  Obs Age  Live Chinook  917 182 1	O.85 ney Sp FG Dead Chinook	Rating: awn Stg  1 Chinook Redd 0	2 Wind  2 Live Chum 24732	Weather  1  Dead Chum	Water 1 Live Pink 2460	Water Dead Pink 0	Vis. 1 2 Live Sockeye 29810 940	Dead Sockeye	Sun Angle  1 Live Cohe	Distance 150 Dead Coho
Seq	Qua Nethod 6 INDEX	LUTE RIVER Lity:  Obs Age  DS AD  Live Chinook  917 182	0.85 nay Sp FG Dead Chinook	Rating: awn Stg  1 Chinook Redd  0 0	2 Wind  2 Live Chum 24732 191	Weather  1  Dead Chum  0 0 0	Water 	Water Dead Fink 0	Vis. 1 2 Live Sockeys 29810 940 130	Dead Sockeye	Sun Angle  1 Live Coho 0 0	Distance 150 Dasd Coho
Seq	Qua Nethod 6 INDEX 101 102 103 104	LUTE RIVER Lity:  Obs Age  Live Chinook  917 182 1	O.85 ney Sp FG Dead Chinook	Rating: awn Stg  1 Chinook Redd  0 0 0	2 Wind  2 Live Chum 24732 191 0	Weather  1  Dead Chum  0 0 0	Water 	Water Dead Fink 0 0	Vis. 1 2 Live Sockeye 29810 940 130 30	Dead Sockeye	Sun Angle  1 Live Coho 0 0 0	Distance 150 Dead Coho 0 0 0

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Method		0.9	Rating:	1							
		ency Sp	awn Stg	Wind	Weather	Water	Water	: <b>Vis.</b> :	ottom	Sun Angle	Distance
6		lDFG	2	1	1	. 1		2	2	1	125
INDEX	Live Chinoob	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dezd Sockeye	Live Coho	Dead Coho
101	6262	1 0	0	40840	2,200	19460	0	17260	0	4400	0
102	4480	900	0	7020	2500	3050	0	6820	a	a	0
103	540	• a	0	500	0	1520	0	2350	0	0	0
184	0	ı G	0	0	0	. 0	0	4410	0	û	0
105	0	a a	0	a	0	0	O	0	0	0	0
TOTAL	11282			48360		24030		30840		4400	
Method	Obs Ag	ency Sp	awn Stg	Wind	Weather	Water	Water	Vis. 1	lotton	Bun Angle	Distance
6			1	2	3	 1			 2	1	110
index	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Cohe	Dead Coho
	0	0	0	0	ů.	1700	8	0	0	42030	0
101			0	D	G	0	0	0	0	4800	D
101 102	0	, ,		0	8	0	٥	B	0	0	0
	0	_	O	U	•		-				U
102	-	0	0 0	0	ā	o	Đ	0	0	0	0
102 103	Q	0	_	_	_	0		0	0	0	_
7	101 102 103 104 105 FOTAL SURVEY E Que Method	INDEX Chinook  101 6262  102 4480  103 549  104 0  105 0  ROTAL 11282  SURVEY ENDED AFTE  Quality:  Method Obs As  6 DS A	INDEX Chinook Chinook  101 6262 0 102 4480 900 103 540 0 104 0 0 105 0 0  ROTAL 11282  BURVEY ENDED AFTER COMPLETIN  Quality: 0.75  Method Obs Agency Sp 6 DS ADFG  Live Dead	INDEX Chinook Chinook Redd  101 6262 0 0 102 4480 900 0 103 540 0 0 104 0 0 0 105 0 0 0  ROTAL 11282  SURVEY ENDED AFTER COMPLETING KAGATI La  Quality: 0.75 Rating:  Method Obs Agency Spawn Stg  6 DS ADFG 1  Live Dead Chinook	INDEX Chinook Chinook Redd Chum  101 6262 0 0 40840 102 4480 900 0 7020 103 540 0 0 500 104 0 0 0 0 0 105 0 0 0 0 0  ROTAL 11282 48360  SURVEY ENDED AFTER COMPLETING KAGATI LAKE.  Quality: 0.75 Rating: 3  Method Obs Agency Spawn Stg Wind  6 DS ADFG 1 2  Live Dead Chinook Live	Chinook   Chinook   Redd   Chum   Chum	INDEX Chinook Chinook Redd Chum Chum Pink  101 6262 0 0 40840 2200 19460 102 4480 900 0 7020 2500 3050 103 540 0 0 500 0 1520 104 0 0 0 0 0 0 0 0 105 0 0 0 0 0 0 0 105 0 0 0 0 0 0 0  ROTAL 11282 48360 24030  SURVEY EMDED AFTER COMPLETING KAGATI LAKE.  Quality: 0.75 Rating: 3  Method Obs Agency Spawn Stg Wind Weather Water 6 DS ADFG 1 2 3 1  Live Dead Chinook Live Dead Live	INDEX Chinook Chinook Redd Chum Chum Pink Pink  101 6262 0 0 40840 2200 19460 0 102 4480 900 0 7020 2500 3050 0 103 540 0 0 500 0 1520 0 104 0 0 0 0 0 0 0 0 0 105 0 0 0 0 0 0 0 0 105 0 0 0 0 0 0 0 0  ROTAL 11282 48360 24030  SURVEY ENDED AFTER COMPLETING KAGATI LAKE.  Quality: 0.75 Rating: 3  Method Obs Agency Spawn Stg Wind Weather Water Water 6 DS ADFG 1 2 3 1  Live Dead Chinook Live Dead Live Dead	INDEX Chinook Chinook Redd Chum Chum Pink Pink Sockeye  101 6262 0 0 40840 2200 19460 0 17260  102 4480 900 0 7020 2500 3050 0 6820  103 540 0 0 500 0 1520 0 2350  104 0 0 0 0 0 0 0 0 0 0 4410  105 0 0 0 0 0 0 0 0 0 0 0 0  IOTAL 11282 48360 24030 30840  SURVEY EMDED AFTER COMPLETING KAGATI LAKE.  Quality: 0.75 Rating: 3  Method Obs Agency Spawn Stg Wind Weather Water Water Vis. 16  6 DS ADFG 1 2 3 1 2  Live Dead Chinook Live Dead Live Dead Live	INDEX Chinook Chinook Redd Chum Chum Pink Pink Sockeye Sockeye  101 6262 0 0 40840 2200 19460 0 17260 0 102 4480 900 0 7020 2500 3050 0 6820 0 103 540 0 0 500 0 1520 0 2350 0 104 0 0 0 0 0 0 0 0 0 4410 0 105 0 0 0 0 0 0 0 0 0 0 0 0  ROTAL 11282 48360 24030 30840  SURVEY ENDED AFTER COMPLETING KAGATI LAKE.  Quality: 0.75 Rating: 3  Hethod Obs Agency Spawn Stg Wind Weather Water Water Vis. Bottom	INDEX Chinook Chinook Redd Chum Chum Pink Pink Sockeye Sockeye Cobo  101 6262 0 0 40840 2200 19460 0 17260 0 4400 102 4480 900 0 7020 2500 3050 0 6820 0 0 103 540 0 0 500 0 1520 0 2350 0 0 104 0 0 0 0 0 0 0 0 0 0 4410 0 0 105 0 0 0 0 0 0 0 0 0 0 0 0 105 0 0 0 0 0 0 0 0 0 0 107 0 0 0 0 0 0 0 0  107 0 0 0 0 0 0 0 0  108 0 0 0 0 0 0 0 0 0  108 0 0 0 0 0 0 0 0 0  109 0 0 0 0 0 0 0 0  109 0 0 0 0 0 0 0 0  109 0 0 0 0 0 0 0 0  109 0 0 0 0 0 0 0 0  109 0 0 0 0 0 0 0 0  109 0 0 0 0 0 0 0 0  109 0 0 0 0 0 0 0 0 0  109 0 0 0 0 0 0 0 0 0  109 0 0 0 0 0 0 0 0 0 0  109 0 0 0 0 0 0 0 0 0 0 0 0  109 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0  109 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Drainage: KUSKOKWIM BAY Lat

7/25/85	•	lity:	0.8	Rating	2				374	•	O 41-	**-*
Seq	Method	Opa Va	ency Sp 	awn Stg	Wind	- Weather	Water	Water		Bottem	Sun Angle.	Distance
79	6	DS A	DFG	2	2	3 '	1		1	2	1	120
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Cham	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Deed Sockeye	Live Coho	Dead Coho
-	101	9565	0	0	12845	0	250	•	6310	0	100	0
	102	3590	0	0	1530	0	0	0	2420	0	0	0
	103	310	0	٥	10	G.	0	0	370	Q	0	0
	104	0	_	0	0	0,	•	0	6470		0	0
	105	0	0	O	0	0	0	0	700	0	0	0
-	TOTAL	13465			14385	<del></del>	250		16270		100	
7/21/86		lity:	OUTH AND EN	Rating:	2	THE OF RADAL						
7/21/86 Seq		lity:	0.65			Weather	Water	Water		Botton	Sun Angle	Distance
Seq	Qua Method	lity:	0.65 ency Sp	Rating:	2 Wind	Weather	Water					
\$eq	Qua Method	lity:	0.65 ency Sp  DFG Dead	Rating:	2 Wind	Weather	Water		-			
Seq	Qua Method  6 INDEX	Obs Ag DS A Live Chinook	0.65  ency Sg  DFG  Dead Chinook	Rating:  ewn Stg  2 Chinook Redd	2 Wind  2 Live Chum	Weather 4 Dead Chum	Water  2 Live Pink	Dead	Live Sockeye	2 Dead Sockeye	1 Live Goho	160 Dead Coho
Seq	Qua Method  6 INDEX	Obs Ag DS A Live Chinook	0.65  ency Sg  DFG  Dead Chinook	Rating:  ewn Stg  2 Chinook Redd 0	2 Wind  2 Live Chum	Weather 4 Dead Chum	Water 2 Live Pink 4400 120	Dead Pink	Live Sockeye 9095 2330	2 Dead Sockeye	1 Live Coho	160 Dead Coho
Seq	Qua Method 	DS A Live Chinooh 2747	0.65  ency Sg  DFG  Dead Chinook	Rating:  ewn Stg  2 Chinook Redd  0 0	2 Wind  2 Live Chum 15180 1590 20	Weather 4 Dead Chum	Water 2 Live Pink   4400	Dead Pink	2 Live Sockeye 9095 2330 565	Dead Sockeye	1 Live Coho	Dead Coho
Seq	Qua Method 	DS A Live Chinooh 2747	O.65  ency Sg  DFG  Dead Chinook	Rating:  awn Stg  2 Chinook Redd  0 0 0	2 Wind  2 Live Chum 15180 1590 20	Weather  4  Dead Chum	Water 2 Live Pink	Dead Pink	2 Live Sockeye 9095 2330 565 100	Dead Sockeye	1 Live Coho	Dead Coho
Seq	Qua Method 	DS A Live Chinooh 2747	O.65  ency Sg  DFG  Dead Chinook	Rating:  ewn Stg  2 Chinook Redd  0 0	2 Wind  2 Live Chum 15180 1590 20	Weather 4 Dead Chum	Water 2 Live Pink   4400	Dead Pink	2 Live Sockeye 9095 2330 565	Dead Sockeye	1 Live Coho	Dead Coho
	Qua Method 	DS A Live Chinooh 2747	O.65  ency Sp  DFG  Dead Chinook  O O O	Rating:  awn Stg  2 Chinook Redd  0 0 0	2 Wind  2 Live Chum 15180 1590 20	Weather  4  Dead Chum	Water 2 Live Pink	Dead Pink	2 Live Sockeye 9095 2330 565 100	Dead Sockeye 0 0 0	1 Live Coho	Dead Coho

07/27/86	Qua	lity:	0.85		Rating:	2	•						
Seq	Method	Obs.	Agency	•	wn Stg	Wind	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
10		KS	ADPG		2	1	1	2	<u></u> .	2	2	1	70
		Liv	_	ead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chino	ok Chi	nook	Redd	Chum	Chun	Pink	Pink	Sockeye	s Sockeye	Coho	Coho
•	101	14	51	0	0	5126	0	0	0	7054	0	835	
	102	8	84	0	0	2455	0	0	0	2235	s 0	0	0
	103		35	0	0	1185	. 0	0	0	1250	0	0	0
	104		G .	Ð	0	0	0 -	0	0	300	0	0	0
	105		0	0	0	0	0	0	0	4110	0	0	0
-	TOTAL	23	70			8766		0		14949	)	835	

Stream: KANEKTOK RIVER

RAIN FOR THE PREVIOUS WEEK CAUSED RIVER WATER LEVEL TO RISE. THE LOWER PORTION OF THE RIVER WAS TURBED WITH SOME DIFFICULTY IN SEEIN BOTTOM IN THE DEEPER SECTIONS. SOME KING SALMON MAY HAVE BEEN MISSED. ADDITIONALLY, THE TURBIDITY MADE THE ENUMERATION OF CHUM SALMON MORE DIFFICULT SINCE THE CHUM SALMON BLENDED MORE WOTH THE RIVER BOTTOM THEN THE OTHER SPECIES. PINK SALMON WERE NOT ENUMERATED.

07/08/87	Qua	lity	0.5	35	Ratings	3							
Seq	Method	Obs	Agency	, Sp.	swn Stg	Wind	Weather	Water	Water	r V1a.	Bottom	Sun Angle	Distance
153	3	KS	ADFG		1	2	3	3		3	3	3	24
	INDEX	Li Chin		Dead hinook	Chinook Redd	Live Chum	Dead Chun	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101		491	0	0	2025	0	0	-0	2200	0 0		
	102		0	0	8	G	0	0	Q			0	0
	103		0	0	G	0	D	a	0		0	. 0	G
	104		0	0	0	a	٥	a	0	(	0	0	Ģ
	105		0	0	0	0	D	o	0	(	) a	0	a
-	TOTAL		491			2025		0	·	2200	)	0	

Observed 1,975 chum, 1,900 sockeys and 491 chinook salmon above the sonar camp. Survey was poor due to high turbidity. Difficult to see in deeper portions of the river.

Drainage: KUSKOKWIM BAY Latitude: 594500N Longitude: 1615600W

/12/87	Qua	lity:	0.6	Rating	3							
Seq	Method	_	•	avn Stg	Wind	Weather	Water	Water		Bottom	Sun Angle	Distance
152	3		DFG	1	1	4	3		4	1	1	52
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Cohe	Dead Coho
_	101	146	0	0	0	0	0	0	8	0	0	0
	102	26	0	0	o	0	a	0	0	0	0	o
	103	0	0	0	0	0	a	0	0	0	0	0
	104	0	0	•	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	٥	0	0
_	TOTAL	172			0		0		0		0	
				•	r chuns in	areș 101.						
		entified		Rating:	r chuns in	area 101.		<del> </del>	······································			
		lity: ·	0.85	•		Weather	Water	Water		Bottom	Sun Angle	Distance
/14/87 Seq	Qua Hethod	lity: ·	0.85 ancy Sp	Rating:	2 Wind	Weather					-	
9eq  154	Qua Hethod	lity: ·	0.85 ency Sp  DFG Dead	Rating:	2 Wind	Weather						
8eq  154	Qua Hethod  6	lity: · Obs As	0.85 ency Sp  DFG Dead	Rating:	Wind 1 Live	Weather  3 Dead	· 2	Dead	1 Live	1 Dead	1 Live Coho	120 Dead
9eq  154	Qua Hethod  6 INDEX	Obs As	0.85 ency Sp  DFG Dead Chinook	Rating:	Wind 1 Live Chum	Weather 3 Dead Chum	2 Live Pink	Dead Pink	l Live Sockeye	1 Dead Sockeye	1 Live Coho	120 Dead Coho
8eq  154	Qua Hethod  6 INDEX 101 102 103	Obs As  DH A Live Chinook	0.85  ancy Sp  DFG  Dead Chinook  0	Rating:  awn Stg  1 Chinook Redd 0 0	Wind  1 Live Chum	Weather  3 Dead Chum	Live Pink	Dead Pink	1 Live Sockeye	Dead Sockeye	1 Live Coho	120  Dead Coho  0 0
8eq  154	Qua Hethod  6 INDEX 101 102 103 104	Obs As  DH A Live Chinook	0.85  Ency Sp  DFG  Dead Chinook  0 0	Rating:  awn Stg  1 Chinook Redd 0 0 0	Wind  1 Live Chum	Weather  3 Dead Chum  0 0 0	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
/14/87 Seq  154	Qua Hethod  6 INDEX 101 102 103	Obs As  DH A Live Chinook	0.85  ancy Sp  DFG  Dead Chinook  0	Rating:  awn Stg  1 Chinook Redd 0 0	Wind  1 Live Chum	Weather  3 Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	1 Live Coho	120  Dead Coho  0 0
/14/87 Seq  154	Qua Hethod  6 INDEX 101 102 103 104	Obs As  DH A Live Chinook	0.85  Broy Sp  Drad Chinook  0 0 0	Rating:  awn Stg  1 Chinook Redd 0 0 0	Wind  1 Live Chum	Weather  3 Dead Chum  0 0 0	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho

Stream: KANEKTOK RIVER

101 102 103	Obs Agen LB ADF Live Chinook	G Dead Chinook	1 Chinook Redd	Wind  1  Live Chum	Weather 3 Dead Chuin	Hater 2 Live Pink			ottom  1  Dead Sockeye	Sun Angle  1  Live Coho	Distance  20 Dead
101 102 103	Live Chinook	Dead Chinook	Chinook Redd	1 Live	3 Dead	2 Live	Dead	1 Live	1 Dead	1 Live	20 Dead
101 102 103	Chinook 0	Chinook 0	Redd								
102 103	_	_								0010	Coho
103	0		0	0	0	G.	0	0	0	0	0
		0	o	0	0	0	0	0	0	0	c
	0	0	0	0	0	0	0	0	0	0	0
104	D	Q	0	0	Ο.	0	0	0	0	0	0
105	D	0	0	0	0	0	a	a	0	0	0
TOTAL	8			0	,	0		0		0	
Method	Obs Agen	cy Spa	um Stg	Wind	Weather	Water	Water	Vis. B	otton	Sun Angle	Distance
6			1	2	3	2			1	1	 120
INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Fink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
- HANEY											
101	1566	0	0	7020	0	. 0	0	7764	0	0	0
101 102	278	<b>0</b>	0 0	1220	0	. 0 0	0	7764 1060	0	0 0	<b>0</b> D
101 102 103	27 <b>6</b> 87	_	-		0	_	_	1060 1047	_	_	-
101 102 103 104	276 87 0	D	0	1220	ō	a	0	1060	ō	a	D
101 102 103	27 <b>6</b> 87	D 0	0	1220 1180	0	0	0	1060 1047	0	Q Q	D 0
1	Qual Hethod	Quality: 0  Method Obs Agen	COTAL 9  Inexperienced surveyor made w  Quality: 0.75  Method Obs Agency Spa	COTAL 0  Inexperienced surveyor made was uncertained.  Quality: 0.75 Rating:  Method Obs Agency Spawn Stg.  6 DS ADFG 1	TOTAL 0 0 Inexperienced surveyor made was uncertain of spec Quality: 0.75 Rating: 2 Method Obs Agency Spawn Stg Wind 6 DS ADFG 1 2	TOTAL 0 0 Inexperienced surveyor made was uncertain of species.  Quality: 0.75 Rating: 2  Method Obs Agency Spawn Stg Wind Weather  6 DS ADFG 1 2 3	TOTAL 9 0 0 Inexperienced surveyor made was uncertain of species.  Quality: 0.75 Rating: 2  Method Obs Agency Spawn Stg Wind Weather Water  6 DS ADFO 1 2 3 2	TOTAL 0 0 0  Inexperienced surveyor made was uncertain of species.  Quality: 0.75 Rating: 2  Method Obs Agency Spawn Stg Wind Weather Water Water  6 DS ADFG 1 2 3 2	TOTAL 0 0 0 0 Inexperienced surveyor made was uncertain of species.  Quality: 0.75 Rating: 2  Method Obs Agency Spawn Stg Wind Weather Water Water Vis. Bo	TOTAL 5 0 0 0  Inexperienced surveyor made was uncertain of species.  Quality: 0.75 Rating: 2  Method Obs Agency Spawn Stg Wind Weather Water Water Vis. Bottom  6 DS ADFG 1 2 3 2 2 1	TOTAL 0 0 0 0 0 Inexperienced surveyor made was uncertain of species.  Quality: 0.75 Rating: 2  Method Obs Agency Spawn Stg Wind Weather Water Water Vis. Bottom Sun Angle  6 DS ADFG 1 2 3 2 2 1 1

Drainage: KUSKOKWIM BAY Latitude: 594500N Longitude: 1615600W

07/26/87	Qua	lity:	0.7		Rating:	2							
Seq	Method	Obs.	Agency	Sp	avn Stg	Wind	Weather	Water		: Via.	Bottom	Sun Angle	Distance
149	6	KS	ADFG		2	1	1 '	3		3	3	1	120
	INDEX	Liv Chine		aad nook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sookeye	Dead Sookeye	Live Coho	Dead Coho
_	101		932	0	0	4100	<u> </u>	0	0	3527	7 6	<u>-</u>	
	102		632	0	0	1910	0	o	0	242	5 0	0	0.
	103		83	0	0	0	0	0	0	279	. 0	0	0
	104		Ð	0	0	0	0	0	0	1168		0	٥
	105		0	0	0	Đ	0 ,	0	0	366	5 0	0	0
_	TOTAL	10	647			6010	•	D		20798	1	Ð	

Stream: KANEKTOK RIVER

Water turbidity made observation of chum and possibly chinook salmon difficult in the mein channel. These two species may have been undercounted as a result.

07/28/87	Qua	lity:	1.		Reting:	1							
Seq	Method	Obs	Agency	Sp.	evn Stg	Wind	Weather	Water	Wate	r Vis.	Bottom	Sun Angle	Distance
									-				
148	6	DS	ADFG		1	1	1	1		1	1	1	20
		Liv	70	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chine	ook Ch	lnook	Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Cobo	Coho
-	101		a	0	0	0	0	0	0		9 0	0	Ð
	102		O .	٥	٥	0	0	O	0	C	0	0	0
	103		0	0	0	0	0	0	0	C	• •	0	0
	104		G	0	C	0	0	0	0	43740	0	D	Ð
	105		0	0	0	0	0	0	0	C	0	0	0
-	TOTAL		0			0		D		43740	<del></del>	0	
		lake o	_	ockeye	spawn sta	ge=1. C-17	2RG .	J		43740	•	•	

07/31/87	Qua	lity:	0.95	ı	Reting:	2							
Seq	Method	Obs	Agency	Sp	awn Stg	Wind 	Weather	Water		. V1s.	Bottom	Sum Angle	Distance
183	6	DS	ADFG		3	2	1	1		1	1	2	85
		Li	ve 1	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chin	ook Ch	inook	Redd	Chum	Chun	Pink	Pink	Sockeye	Sockeye	Caho	Coho
-	101	2:	358	O	0	870	0	150	0	3245	0	550	0
	102	1.	299	102	0	920	22	Ð	0	2063		0	D
	103		<b>450</b>	4	0	335	0	0	Đ	2705		0	٥
	104		0	0	0	0	8	0	0	0		0	0
	105		0	0	0	0	0	0	0	0	g.	0	0
-	TOTAL	41	L07			2125	•	150		8013	1	550	

Survey rated fair for chinook, poor for chum (major mortality has occurred), and good for sockeye. spawn stage: chinook=2, chum=3, sockeye=1. Began survey at outlet of Kagati Lake; ended at mouth. Coho counts were all within 5 miles of mouth. C-172RG.

08/20/87	Qua	lity:	1.	Ratings	1						- ··	
Seq	Hethod	Obs A	gency	Spawn Stg	Wind	Weather	Water		e Vis.	Botton	Sun Angle	Distance
184	6	DS .	ADFG	1	1	1	1		1	1	1	108
	INDEX	Live Chinoo		<del>-</del>	Live Chum	Dead Chum	Live Piņk	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101	40	7	424 0	400	400	780	0	4084	745	18060	0
	102		7	40 0	0	150	100	0	552	250	1790	0
	103	2	6	1 0	0	0	0	Ð		9	206	0
	104		0	0 0	0	٥	o	G	23770	) 6	0	0
	105		0	0 0	0	0	0	0	(	0	0	0.
-	TOTAL	44	ō		400		880		28406	i	20056	

Began at mouth; ended at Kagati Lake. Early survey for coho. Should try again in a week. Sockeys in Kagati Lake are still one-third prespawners and two-thirds are spawning. This indicates that identification between sockeys and coho in late July survey was good as all sockeys type fish in upper river were most likely correctly called sockeys while those nearer the mouth were identified as coho. In some years, it is apparent that differentiating requires awareness of the fact that relatively fresh sockeys may be in the river in late July. G-172RG.

Stream: KANEKTOK RIVER Drainage: KUSKOKWIM BAY Latitude: 594500W Longitude: 1615600W

08/27/8	7 Qu	ality:	0.	. 95	Ratings	1							
	eq Method	Ob#	Agend	•	ewn Stg	Wind	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
	182 6	K8	ADF		1	2	1	1	_`	1	1	1	120
		Li	ve	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chin	ook	Chinook	Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Coho	Coho
	101		9	0	0	0	0	0	0		) 0	6294	0
	102		13	0	0	0	0	0	0	25	. 0	2415	0
	105		30	0	0	0	0	0	0	135	• 0	2163	0
	104		0	0	0	C C	0	0	0	30129	9	Đ	0
	105		0	0	0	0	0	0	0	•	0	0	0
	TOTAL		52			0		0		30289	<del></del>	10872	

Surveyed from Eagati Lake to the mouth of the Eanektok River. Good survey. Low, clear water levels. Noticed many side aloughs dry with numerous carcasses. Did not attempt to count carcasses. Fourteen rafters on river. C-172RG.

Hethod 6	Obs Age		1 Chinook	Wind  3	Weather .	Water  3	Wate:		Bottom S  1	un Angle	Distance
_	Live		1	3	2	3		4	1	1	
MDEX		Dead	Chinash								70
	CHIMOOK	Chinook		Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sookeye	Dead Sockeye	Live Coho	Dead Gobo
101	23	0	0	0	0	0	0	D	0-0	o	-
102	0	D	a	D	0	0	0	0	0-0	0	-
103	0	0	0	0	0	6	0	0	0-0	0	-
104	0	0	0	0	0	0	0	0	0-0	-0	-
105	0	0	0	· D	0	0	0	0	0-0		-
IATOL	23			D		0		0	-0	-	
•	102 103 104 105 OTAL	102 0 103 0 104 0 105 0	102 0 0 103 0 0 104 0 0 105 0 0	102 0 0 0 103 0 0 0 104 0 0 0 105 0 0 0	102 0 0 0 0 0 0 103 104 0 0 0 0 0 0 0 105 0 0 0 0 0 0 0 0 0 0 0	102 0 0 0 0 0 0 103 103 0 0 0 0 0 0 0 0 104 0 0 0 0 0 0 0 0 105 0 0 0 0 0 0 0 0 0 0	102	102	102 0 0 0 0 0 0 0 0 0 0 0 103 0 0 0 0 0 0 0	102	102

61

Pa,

	7	lity:	0.5	Ratings	3							
Seq	Hethod		jenay S	pawn Stg	Wind	Weather	Water	Wate		Bottom	Sun Angle	Distance
190	6		DFG	1	3	2	3		4	. 3	1	45
	INDEX	Live Chincol	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sookeye	Dead Sockeye	Live Coho	Dead Coho
	101	301	-	_	1046	2	75	0	910	0	0	0
	102	(	• 0	0	0	0	0	0	0	0	0	0
	103	•	_	Đ	O-	0	0	0	٥	0	G	Đ
	104		-	0	O.	0	a	0	0	0	Q	G
	105	(	0	0	0	0	0	0	0	0	0	O
_	TOTAL	309	· · · · · · · · · · · · · · · · · · ·		1046		75		910		0	
	visible.			Rating:	Surveyed al	1 meanders.	Time 2:35	9-3:29 pa	n. Knded	survey whe	n no more :	fish were
	visible.	G-172RG	0.65			l meanders.	Time 2:35					
/14/88 Beq	Qua Hethod	G-172RG	0.65 ency 81	Rating:	3 Wind	Weather	Water	Water	r Vis.	Sottom	Sun Angle	Distance
/14/88 Beq	Visible. Qua	G-172RG	0.65 ency 8j	Rating:	3 Wind	Weather	Water	Water	r Vis.	Bottom	Sun Angle	Distance
/14/88 Beq	Qua Hethod 	C-172RG	0.65 ency Si	Rating: Dawn Stg  1 Chinook	3 Wind	Weather 3 Dead	Water 2 Live	Water  Dead	r Vis.	Bottom  3 Dead	Sun Angle	Distance  100 Dead
/14/88 Beq	Qua Hethod	C-172RG	0.65 ency Si	Rating:	3 Wind 1	Weather	Water 2	Wate:	r Vis. 1	Sottom  3	Sun Angle	Distance
/14/88 Beq	Qua Method  6 INDEX	C-172RG	0.65 ency Sp DFG Dead Chinook	Rating: Dawn Stg  1 Chinook Redd	3 Wind  1 Live Chum	Weather 3 Dead Ghun	Water 2 Live Pink 70	Water  Dead	r Vis. 3 3 Live Sockeye	Bottom  3 Dead Sockeye	Sun Anglo 1 Live	Distance  100 Dead
/14/88 Beq	Qua Method  6 INDEX	C-172RG	0.65 ensy Si DFG Dead Chinook	Rating: Dawn Stg  1 Chinook Redd 0	3 Wind  1 Live Chum 8512 130	Weather  3  Dead Ghun	Live Pink	Water  Dead Pink	Live Sockeye 3805	Bottom  3 Dead Sockeye	Sun Angle  1  Live Coho	Distance 100 Dead Coho
/14/88 Beq	Qua Method  6 INDEX	C-172RG	0.65 ency Sp DFG Dead Chinook	Rating: Dawn Stg  1 Chinook Redd 0 0	3 Wind  1 Live Chum 8512 130	Weather  3  Dead Ghun  0 0 0	Live Pink 70 30	Water  Dead Pink	r Vis. 3 3 Live Sockeye	Bottom  3 Dead Sockeye 0 0	Sun Angle  1 Live Coho	Distance  100 Desd Coho
/14/88 Beq	Qua Method  6 INDEX 101 102 103 104	C-172RG	D.65 ency Si DFG Dead Chinook	Rating: Dawn Stg  1 Chinook Redd 0 0	3 Wind  1 Live Chum 8512 130 0	Weather  3  Dead Ghun  0 0 0 0	Live Pink 70 30 0	Water Dead Pink  0 0 0	Sockeye 3805 1200 402	Bottom 3 Dead Sockeye 0 0	Sun Angle  1 Live Coho 0 0	Distance 180 Desd Coho 0
/14/88 Beq	Qua Method  6 INDEX	C-172RG	D.65 ency Si DFG Dead Chinook	Rating: Dawn Stg  1 Chinook Redd 0 0	3 Wind  1 Live Chum 8512 130	Weather  3  Dead Ghun  0 0 0	Live Pink 70 30	Dead Pink	T Vis. 1	Bottom  3 Dead Sockeye 0 0	Sun Angle  1 Live Coho 0 0	Distance 100 Desd Coho 0 0
/14/88 Beq  191	Qua Method  6 INDEX 101 102 103 104	C-172RG	DFG  Dead Chinook	Rating: Dawn Stg  1 Chinook Redd 0 0	3 Wind  1 Live Chum 8512 130 0	Weather  3  Dead Ghun  0 0 0 0	Live Pink 70 30 0	Water Dead Pink  0 0 0	Sockeye 3805 1200 402	Bottom 3 Dead Sockeye 0 0	Sun Angle  1 Live Coho 0 0	Distance 100 Desd Coho 0 0
14/88 Seq  191	Qua Method 	C-172RG	DFG  Dead Chinook	Rating: Dawn Stg  1 Chinook Redd 0 0	3 Wind  1 Live Chum 8512 130 0 6	Weather  3  Dead Ghun  0 0 0 0	Vater 2 Live Pink 70 30 0 0	Water Dead Pink  0 0 0	Sockeye 3805 1200 402 0	Bottom 3 Dead Sockeye 0 0	Sun Angle  1 Live Coho 0 0 0	Distance 

Stream: KANEKTOK RIVER Drainage: KUSKOKWIM BAY Latitude: 594500N Longitude: 1615600W

0	7/21/88	Qua	lity:	0.95	Reting:	1		•					
	Seq	Method	Obs A	tency Sp	ewn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
	206	6		ADFG	2	1	1	1		1	2	1	100
		INDEX	Live Chinool		Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Bookeye	Dead Sockeye	Live Coho	Dead Coho
	_	101	9115	5 0	0	16050	500	545	0	16570		0	0
		102 103	1835 196		0	3893 120	20 0	125 200	0	4560 450		0	0
		104		9	0	0	0	0	0	8860		9	0
		105	•	) D	0	0	0	٥	0	0	0	a	0
	_	TOTAL.	11140	•		20063	<del> </del>	870		30440		0	

63

 $\mathbf{Pa}_{i}$ 

08/01/84	Qua	lity:	1.25	Rating:	0							
Seq	Method	Obs A	gency	Spawn Stg	Wind	Weather	Water		c Vis.	Botton	Sun Angle	Distance
34			ADFG	0	0	0	0		0	0	0	0
		Live	Den	d Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinoo	k Chino	ok Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Cobo	Coho
_	101	3820	2	0 0	194345	q	46739	0	54352	0	31745	0
	102	1	0	0 0	Q.	0	O	0	C	0	0	0
	103	1	0	0 0	C	0	0	0	6		6	O
	104	1	0	0 6	0	0	0	0	0	• 0	0	0
	105	1	0	0 0	0	0	Đ	0	0		0	0
	TOTAL	<del></del>	<del> </del>									

COUNTS REPRESENT TOTAL ABUNDANCE FROM 6/15/84 - 8/1/84. COUNTS WERE REGISTERED BY SOMER AND APPORTIONED INT SPECIES COUNTS USING DRIFT GILL NET TEST PISHING DATA FROM 6/15/84 - 7/18/84 AND BEACH SEINE DATA FROM 7/19/84 - 8/1/84. DATE IS LAST DAY OF OPERATION.

08/19/85	Qua	lity:	1.25	1	Rating:	0							
Seq	Method	Obe 4	lgency	-	wn Stg	Wind	Weather	Water			Bottom	Bun Angle	Distance
100	12	DE	ADFG		9	0	0	0	0		0	0	0
	INDEX	Live			Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
	101	3824	15	0	0	200140	0	40595	0	54754	D	32606	0
	102		0	0	0	0	0	0	0	0	6	0	0
	103		0	0	0	0	O	a	8	0	0	0	0
	104		D	0	0	0	0	0	O	0	0	0	0
	105		0	0	0	0	a	0	0	0	0	0	0
_	TOTAL	3824	15			200140		40595		54754		32606	<del></del>

Drainage: KANEKTOK RIVER Latitude: 595300M Longitude: 1602800W

07/31/87	Qua	lity:	0.85	_	Rating	2							
Seq	Method	Obs /	Agency	-	wn Stg	Wind	Weather	Water		r Vie.	Bottom	Sun Angle	Distance
155	3	KS	ADFG		3	1	2	1		2	2	2	13
		Live		ad	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chino	ok Chiz	ook.	Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Cobo	Coho
_	101	2:	30	0	0	30	24	0	0	139	0	0	0
	102		0	0	0	0	0	0	0	0	0	0	0
	103		Ð	O	0	0	0	ð	0	0	0	0	a
	104		0	0	0	D	0	0	. 0	D	0	0	0
	105		D	0	0	0	0	0	0	0	0	0	0
-	TOTAL	2:	30			30		0 .		139		0	

Stream: KANUKTIK CREEK

Counted from mouth to lake. Did not count the other drainage at the forks, approximately 11 miles from the mouth. Kanuktik Creek is the lesser volume of the two creeks at this fork.

Drainage: KANUKTIK CREEK/KANEKTOK R.

Stream: KANUKTIK LAKE

D7/31/87	Que	lity:	0.85	Rating:	2							
Seq	Method	_	-	pawn Stg	Wind	Weather,	Water			Bottom	Sun Angle	Distance
156	3		)FG	3	1 -	2	1	2		2	2	3
		Live	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinook	Chinoob	: Redd	Chum	Chum	Pink .	Pink	Sockeye	Sockeye	Coho	Caho
	101	Ö		0	0	0	0	0	25	. D	0	0
	102	0	0	0	0	0	0	0	0		0	0
	103	¢	0	0	e	0	0	0	0		.0	0
	104	0	0	0	0	0	6	o	0	• •	0	D
	105	0	Ó	0	0	0	0	0	0	0	a	Ð
_	TOTAL	0	<del> </del>		0		0		25	<del></del>	0	
	Beautifu	l lake.										

Latituda: 594400N Longitude: 1601900W

07/27/85 Quality: 0.65 Rating: Method Obe Spawn Stg Wind Weather Water Water Vis. Bottom Sun Angle . Distance Seq Asency 93 6 KP ADFG 2 1 3 3 3 2 1 24 Live Dead Chinook Live Dead Live Dead Live Dead Live Dead INDEX Chinook Redd Chum Chun Pink Pink Sockeye Sockeye Coho Coho Chinook 101 6 0 0 0 o O 0 0 0 ٥ Ð 102 2 0 0 652 7 0 0 0 0 103 D 0 0 0 0 0 ۵ 0 104 0 **Q** . 0 .0 0 0 0 Û 0 0 O Ð 0 0 ٥ Ð 0 0 0 105 TOTAL 2 652 Q ٥ 0 PLAME C-172. TURBIDITY APPEARED TO BE ALGAE BLOOM, I.E. GREEN IN COLOR. SPANNING STAGE EARLY IN PEAK.

08/09/87	Qua	lity	1.	Rating:	1							
Seq	Method	Obs Ag	ency (	Spawn Stg	Wind	Weather	Water	Water	r Vis. 1	Bottem	Sun Angle	Distance
181	1	DH A	DPG	3	1	1	1		1	1	1	4
	INDEX	Live Chinook	Dead Chinool		Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Li <b>ve</b> Goho	Dead Coho
-	101	0	-	0 0	0	. 0	0	0	0	0	0	0
	102	0	(	0	0	1000	oʻ	Đ	a	0	0	0
	103	. 0	(	0	0	0	0	0	0	0	0	0
	104	0	(	0	0	Q	0	0	0	0	0	0
	105	0	•	0	0	a	0	6	0	0	0	0
-	TOTAL	0			0		. 0				0	

07/28/87	Qua	lity:	0.75	Rating:	2							
Seq	Method	-		ewn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
157	3		)FG	2	2	2	2		2	2	1	16
		Live	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinook	Chinook	Redd	Chum	Chua	Pink	Pink	Sockeye	Sockeye	Coho	Goho
_	101	3	4	0	915	329	0	a	0	0	0	0
	102	0	0	0	0	Q	Ö	0	0	q	0	0
	103	0	0	0	0	. 0	0	0	0	0	a	0
	104	0	0	0	0	G	0	0	0	0	0	Q
	105	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	3			915		0 .		0		0	
	0											

Stream: KINEGNAK RIVER

Stream: KIPCHUK RIVER

9/11/8	l Qu	ility:	1.25	Rating	0							
80	eq Method	Obs As	ency Sp	avn Stg	Wind	Weather	Water	Water	r Vie. B	ottom	Sun Angle	Distance
	1 1	DH A	DFG	0	0	0	0		0	Û	0	0
		Live	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinook	Chinook	Redd	Chum	Chura	Pink	Pink	Sockeye	Sockeye	Coho	Coho
	101	0	0	0	Đ	0	0	0	0	0	0	0
	102	0	0	0	0.	. 0	0	0	0	0	0	0
	103	0	0	0	0	0	0	0	0	0	20	0
	104	0	D	a	0	0	D	0	0	a	0	0
	105	0	0	0	0.	0	0	0	0	0	0	0
	TOTAL	0			0		0		0		20	

07/27/87	Qua	lity:	0.85		Rating:	2						•	
Seq	Method	Obe .	Agency	6pa	Wn Stg	Wind	Weather	Water			lotton	Sun Angle	Distance
158	6	DB	ADFG		2	1	1	2		2	2	1	40
	INDEK	Live		ead nook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Bookeye	Dead Sockeye	Live Coho	Dead Coho
-	101		31	0	6	5	0	0	.0	0	0		0
	102		79	0	19	10	0	0	0	0	0	0	D
	103		83	0	13	0	Ó	O	0	0	0	0	0
	104		0	0	0	a	0	0	0	0	0	0	0
	105		0	0	a	o	o <sub>.</sub>	0	0	0	0	0	D
-	TOTAL	1	93			15		0		0		0	

Survey was poor in the lower five miles where chiss spawning is most likely. Spawn stage: chinook=2, chime=0 (unobserved). Survey began in valley above Vrem camp and ended at mouth.

Stream: KIPCHUK RIVER Drainage: ANIAK RIVER Latitude: 610300M Longitude: 1591000W

7/1	8/88	Qua	lity:	0.6		Rating:	3							
	Seq	Method		Seuch	-	wn Stg	Wind	Weather	Water'	Water	Vis.	Bottom	Sun Angle	Distance
·	201	6	DS	ADFG		1	3	. 2	4		2	2	1	15
			Live	De:	ad	Chinock	Live	Dead	Live	Dead	Live	Dead	Live	Dead
		INDEX	Chineo	k Chin	ook	Redd	Chun	Chum	Pink	Pink	Sockeye	Sockeye	Coho	Coho.
		101		O .	0	0	0	0	0	0	0	0		0
		102	4	1	0	0	0	. 0	0	0	0	8	0	0
		103		0	0	6	0	0	0	0	. 0	0	a	0
		104		٥	0	Q.	O	0	0	0	0	0	0	o
		105		0	0	0	0	0	0	0	0	٥	0	0
	_	TOTAL	4	1			0		0		Đ	<del></del>	0	

Page

Latitude: 605130N Longitude: 1611400W

35 IN 11 1	Method  6 NDEX		ADFG Dead	pawn Stg 1 Chincok	Wind  1	Weather  2	Water  2	Wate:		lottom  2	Sun Angle	Distance
110 110 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NDEX	DS A	ADFG Dead									
1 1 1	101			Chinaak					•	-	1	90
1			c Chinoek		Live Chum	Dead Chun	Live Pink	Dead Pink	Live Sookeye	Dead Sockeye	Live Coho	Deed Coho
1	102	96	9 0	0	640	0	0	0	21	. 0	0	0
_		55	5 0	• 0	3	0	0	0	7	Đ	0	. D
1	103		• 0	_	0	0	0	0	0	0	0	0
_	104	(	-	•	0	0	0	0	0	0	0	0
1	105	C	0 0	0	0	0	0 .	0	0	0	0	0
70	OTAL	157	,		643		0		28		0	
			D. 95	Rating:	2							
Seq N	Method			Rating:	Wind	Weather	Water	Water		lotton	Sun Angle	Distance
	Method  6		sency 8	pawn Stg		Weather	Water  1	**		dottom  1	Sun Angle	Distance 50
36			sency S ADFG Dead	pawn Stg 1 Chinook	Wind			**				
36 1M	6 MDEX	Live Chinook	pency 8  ADFG  Dead  k Chinook	pawn Stg  1 Chinook Redd	Wind  1  Live Chum	2 Dead Chun	1 Live Pink	Dead Pink	1 Live Sockeye	1 Dead Sookeye	1 Live Coho	60 Dead Coho
36 IN 	6 NDEX 101 102	Live Chinook	Dead k Chinook	pawn Stg  1 Chinook Redd	Wind  1 Live Chus  673 28	2 Dead Chun 0	1 Live Pink	Dead Fink	Live Sockeye	Dead Sockeye	1 Live Coho	60 Dead Coho
36 IN	6 MDEX 101 102 103	Live Chinool	Dead k Chinook	pawn Stg  1 Chinook Redd	Wind  1 Live Chus  673 28	2 Dead Chun 0	Live Pink	Dead Fink	Live Sockeye	Dead Sookeye	1 Live Coho	60  Dead Coho  0 0
36 IN 11 1 1 1 1 1 1	6 MDEX 101 102 103 104	Live Chinool	Dead k Chinook	1 Chinook Redd	Wind 1 Live Chus 673 28 0	2 Dead Chum 0 0 0	Live Pink	Dead Fink	Live Sockeye	Dead Sookeys	1 Live Coho	60  Dead Coho  0 0 0
36 IN 11 1 1 1 1 1 1	6 MDEX 101 102 103	Live Chinool	Dead k Chinook	pawn Stg  1 Chinook Redd	Wind  1 Live Chus  673 28	2 Dead Chun 0	Live Pink	Dead Fink	Live Sockeye	Dead Sookeye	1 Live Coho	60  Dead Coho  0 0

3/27/84	Qui	lity:	0.	•	Rating:	9							
Seq	Method	-	Agency	, 6p	awn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
37	7 6	DS	ADFG		1	3	1		-	3	2	1	60
	INDEX	Liv Chine	_	Dead hinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101		0	٥	Ó	0	٥,	0	0	0	- C	0	0
	102		Đ	0	0	0	0	0	0	0	0	1702	0
	103		0	0	0	0	0	0	0	0	0	1258	0
	104		0	0	0	0	0	0	0	0	0	563	0
	105		0	0	Q	ů	0	0	0	Q	0	0	0
_	TOTAL		0			0		8	Th	0	***	3523	
	RATED PO	OR DUE	TO EAR	liness.	COHOS 2 H	I. BELOW LA	TE. BUDKU	AT BOTTON C	PF AKEA 1	O2 (UPPE	R KASIGLUK	R. GUTOFF)	. SURVEY
/31/85 Seq	RATED PO	OR DUE		Liness.	Rating:	I. BELOW LA	Weather	Water					
	Que	OR DUE	O.	Liness.	Rating:	2 Wind	Weather	Water		: Vis.	Sottom 	Sum Angle	Distance
Seq	Que	OR DUE	TO EAR	Liness.	Rating:	2 Wind	Weather	Water	Water	: V1s.	Sottom	Sum Angle	Distance
Seq	Que	OR DUE	Q. Agency ADFG	Liness.	Rating:	2 Wind	Weather	Water	Water	: Vis.	Sottom 	Sum Angle	Distance
Seq	Que Hethod 6 INDEX	Obs Live Chino	Q. Agency ADFG	Pead himook	Rating: awn Stg 1 Chinook Radd	Wind  1 Live Chum	Weather 2 Dead Chum	Water  1 Live Pink	Water  Dead	Vis. 1	Bottom  1 Dead	Sun Angle 1 Live	Distance  85 Dead
Seq	Que Hethod 6 INDEX	Obs Liv Chino	Q. Agency ADFG	Pead himook	Rating: awn Stg 1 Chinook Radd	Wind  1 Live Chum	Weather  2  Dead Chum	Water  1 Live Pink  0	Water Dead Pink	Vis.   2 Live Sockeye	Bottom  1 Dead Sockeye	Sun Angle  1  Live Coho	Distance  85 Dead Coho
Seq	Que Hethod 6 INDEX	Obs Liv Chino	Q. Agency ADFG eok C	Pead himook	Rating: awn Stg 1 Chinook Radd	Wind  1 Live Chum	Weather 2 Dead Chum	Water  1 Live Pink	Water Dead Pink	Vis.   2 Live Sockeye	Bottom  1 Dead Sockeye	Sun Angle  1 Live Coho	Distance  85 Dead Coho
Seq	Qua   Nethod   6	Obs Liv Chino	Q. Agency ADFG eok C	Pead himook	Rating: awn Stg  1 Chinook Radd	Uind Live Chum  3 48 0 0	Weather  2  Dead Chum  3 0 0	Water  1 Live Pink  0 0 0	Vater Dead Pink	Live Sockeye	Bottom  1 Dead Sockeye 0	Sun Angle  1 Live Coho 0	Distance  85 Dead Coho
Seq	Que Hethod 6 INDEX	Obs Liv Chino	Q. Agency ADFG eok C	Pead himook	Rating: awn Stg 1 Chinook Radd	Wind  1 Live Chum	Weather  2  Dead Chum  3 0	Water 1 Live Pink 0 0	Water Dead Pink	Live Sockeye	Bottom  1 Dead Sockeye 0 0	Sun Angle  1 Live Coho 0 0	Distance  85 Dead Coho
Seq	Qua   Nethod   6	Obs Liv Chino	Q. Agency ADFG eok C	Pead himook	Rating: awn Stg  1 Chinook Radd	Uind Live Chum  3 48 0 0	Weather  2  Dead Chum  3 0 0	Water  1 Live Pink  0 0 0	Vater Dead Pink	Live Sockeye	Bottom  1 Dead Sockeye 0 0	Sun Angle  1 Live Coho 0 0	Distance  85 Dead Coho
Seq	Qua Hethod 6 INDEX 101 102 103 104 105	Obs Live Chino	Q. Agency ADFG cok C	Pead himook	Rating: awn Stg  1 Chinook Radd  0 0 0	2 Wind 1 Live Chum 0 48 0 0	Weather  2  Dead Chum  3 0 0	Water 1 Live Pink 0 0 0 0	Pead Pink	Live Sookeye	Bottom 1 Dead Sockeye 0 0	Sun Angle  1 Live Coho 0 0 0	Distance 85 Dead Coho

07/23/87	Qua	lityı	0.	7	Rating:	3							
Seq	Method	Obs	Agency	Sp	evn Stg	Wind	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
159	29	DS	ADFG		0	2	3	4		2	0	1	80
	INDEX	Li Chin		Dead hinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Goho
-	101		0	0	0	0	0	0	0		0	0	D
	102		0	Ð	G	0	0	0	0	(	0	0	0
	103		0	0	G	0	0	Ð	0	(	0	0	0
	104		0	Đ	a	0	0	0	6	(	0	D	0
	105		0	0	0	0	0	0	0	(	0	0	0
_	TOTAL		0			0		0			)	0	

Plane and pilot were provided by USFWS. USFWS observer, Ray Jones, was also aboard. Kisaralik River was high, turbid to within 5 miles of Kiearalik Lake. No salmon were observed in the clear water near the lake.

07	7/31/87	Qua	llty:	0.	85	Rating:	2							
	Seq	Mathod	Obs	Agenc	y Sp	AWM Stg	Wind	Weather	Water		r Vis.	Bottom	Sum Angle	Distance
	180	2¥	DH	ADFG		1	1	2	2		2	1	1	30
		INDEK	Li Chin		Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
	-	101		0	0	0	0	Ö	0	0		0	0	0
		102		0	0	0	0	0	0	0	0	0	0	0
		103		29	O	0	0	O	0	0	15	0	a	0
		104		0	0	0	0	0	0	0	0	0	0	0
		105		0	0	0	0	0	0	0	0	0	0	0
	_	TOTAL		29			0		0		15	ı	0	

Water clear at kisaralik Lake to unsurveyable at golden gate falls. All sockeye at confluence of Gold Creek and Kisaralik River.

07/16/88	Qua	lity:	0.7	7	Rating:	3							
Seq	Method	Obs	Agency	Sp	ewn Stg	Wind	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
197	6	DB	ADFG		1	2	2	3		2	2	1	60
	INDEX	Li. Ghin		Dead Linook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101		41	0	0	690	6	0	0		0 0	0	0
	102		17	0	0	93	0	0	0	(	0	0	0
	103		2	0	0	°D.	q	0	0	(	0	0	0
	104		٥	0	0	0	0	9	0	(	0	0	0
	105		0	0	0	0	0	0	0	(	0	0	D
-	TOTAL		60			785		0			<u> </u>		

Rated 3 due to early survey and turbid water from mid-area 102 downstream. Began at Kisaralik Lake, ended near lower outoff to Kasigluk River. C-172RG.

08/02/88	Qua	lity:	0.65		Rating:	2							
Seq 	Hethod 	Obs	Agency	Spi	wn Stg	Wind 	Weather	Water	Wate:		Bottom	Sum Angle	Distance
215	2 <b>F</b>	DS	ADFG		3	2	2	2		3	3	1	65
	INDEX	Liv		Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chine	ok Ch	inook	Redd	Chum	Chum	Plak	Pink	Sockeye	Sockeye	Coho	Coho
_	101		0	0	8	470	100	0	0	-	0	0	0
	102	7	/84	29	172	540	395	0	a	(	0	0	0
	103		56	0	28	O	D	0	۵	· (	, 0	0	0
	104		0	0	0	0	0	0	0	•	) 0	Đ	0
	105		0	0	0	0	0	0	0	C	3 a	. 0	a
_	TOTAL		340			1010		0			)	0	

Survey began at Kisaralik Lake, ended about 2 miles into Area 101. Survey rating: chimook=2, chum=3. Past peak of spawning for both spp., but chinook mostley on redds in good numbers and few redds were abandoned. USFWS aircraft piloted by George Walters.

7/27/87	Qua	lity:	1.	Rating:	1 .							
Seq	Method	-	•	awn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
. 160	6	DS AD	PG	2	1	1	1	•	1	1	1	43
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chus	Live Pink	Dead Pink	Live Sockeye	Dead Sookeye	Live Coho	Dead Cobo
-	101	715	2	144	2055	16	0	0	415	0	0	0
	102	Ö	0	0	0	0	0	0	0	o	0	0
	103	0	0	0	0	Ō	0	0	0	0	0	0
	104	0	0	0	o o	0	0	0	0	Q	0	0
	105	0	<b>G</b>	0	Q	0	0	6	0	0	0	Đ
-	TOTAL	715			2055		0		415		· a	

07/23/88	Qua	lity	0.8		Rating:	2							
Seq	Method	Obs .	Agency	Sp4	wa Stg	Wind	Westber	Water	Wate:	r Vis.	Bottom	Sun Angle	Distance
209	6	DS.	ADFG		2	2	2	1		2	2	1	60
	INDEX	Liv Chino		Dead Inook	Chinook Redd	Live Chum	Bead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101	19	70	17	0	4940	260	a	ō	2626	40	0	0
	102		0	0	0	0	0	0	0	9	0	0	0
	103 104		0	0	0	0	0	0	Q Q		; G	9	0
	105		0	0	ō	٥	0	ō	0	Č	0	0	0
-	TOTAL	19	70			4940		9		2626	3	Q	

Drainage: KOGRUKLUK RIVER/HOLITNA R.

Stream: KOGRUKLUK WEIR PROJECT

	dee	lity:	1.25	'	Rating	2							
Seq	Method	Obs	Agency	Spa	avn Stg	Wind	Weather	Water	Wate:		Bottom	Sun Angle	Distance
1	0 11	DS	ADFG		D	a	0	0		0	0	0	0
	INDEX	Liv Chine		Dead inook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
•	101	5.	107	0	D	8046	0	0	0	2302	. 0	0	0
	102		0	0	Ð	0	0	0	0	0	0	0	0
	103		0	0	0	0	0	. 0	0	0	•	_	0
	104		0	0	G	0	0	0	0	0	_	_	0
	105		0	0	0	0	0	6	0	0	. 0	0	6
•	TOTAL.	55	07			8046		0		2302		0	
127/77		ASON E	1.25		ATE ABOVE	WEIR 6/29-	7/21.	<del></del>	<del></del>				
Seq	Qua Method	olity:	1.25 Agency			·	7/21. Weather	Water	Water	Vis.	Bottom	Sun Angle	Distance
	Qua Hethod	lity	1.25		Rating:	2		Water 0			Bottom  0	Sun Angle	Distance
5eq	Qua Hethod	Obs	1.25 Agency		Rating:	2 Wind	Weather			-	0 Dead		
Seq	Qua Method  1 11 INDEX	Obs DS Liv	Agency ADFG ok Ch	Spe Dead incok	Rating:  www. Stg  0  Chinook	2 Wind  0 Live	Weather 0 Dead	0 Live	Dead	- O Live	0 Dead Sockeye	0 Live Coho	0 Dead
Seq	Qua Method  1 11 INDEX	Obs DS Liv	Agency ADFG ok Ch	Spe Dead inook	Rating:  own Stg  Chinook Redd	Wind  0 Live Chum	Weather  0 Dead Chum	Live Pink	Dead Pink 0 0	- 0 Live Sockeye	0 Dead Sockeye	0 Live Coho	0 Dead Coho
5eq	Qua Method  1 11 INDEX 101 102 103	Obs DS Liv	Agency ADFG ok Ch	Spe Dead incok	Rating:  own Stg  Chinook Redd  o  o	2 Wind 0 Live Chum 21746 0 0	Weather 0 Dead Chum 0 0	Live Pink	Dead Pink 0 0	Live Sookeye	Dead Sockeye	0 Live Coho	Dead Coho
5eq	Qua Method  1 11 INDEX 101 102 103 104	Obs DS Liv	Agency ADFG ok Ch	Spe Dead incok	Rating:  own Stg  Chinook Redd  o  o  o	2 Wind 0 Live Chum 21746 0	Weather 0 Dead Chum 0 0 0	O Live Pink O O	Pead Pink	Live Sockeye 2238 0	Dead Sockeye	O Live Coho	Dead Coho
5eq	Qua Method  1 11 INDEX 101 102 103	Obs DS Liv	Agency ADFG ok Ch	Spe Dead incok	Rating:  own Stg  Chinook Redd  o  o	2 Wind 0 Live Chum 21746 0 0	Weather 0 Dead Chum 0 0	Live Pink	Dead Pink 0 0	Live Sockeye 2238	Dead Sockeye	0 Live Coho	Dead Coho
Seq	Qua Method  1 11 INDEX 101 102 103 104	Obs  DS Liv Chine	Agency ADFG ok Ch	Spe Dead incok	Rating:  own Stg  Chinook Redd  o  o  o	2 Wind 0 Live Chum 21746 0	Weather 0 Dead Chum 0 0 0	O Live Pink O O	Pead Pink	Live Sockeye 2238 0	Dead Sockeye 0 0 0	O Live Coho	Dead Coho

Latitude: 605036N Longitude: 1575049W

Latitude: 605036# Longitude: 1575049W

	Qua	lity	1.2	5	Ratings	1							
Seq	Method	0bs	Agency	<b>6</b> p	evn Stg	Wind	Westher	Water	Water		Bottom	Sun Angle	Distance
12	11	RB	ADFG		0	0	0	0	-	0	0	0 .	0
	INDEX	Liv	_	Dead hinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	131	32	0	0	47099	٥	Đ	0	1656	0	0	0
	102		0	ō	0	0	0	0	0	0	0	0	0
	103		0	0	6	0	0	0	0	0	0	0	0
	104		0	0	0	0	0	0	0	0	0	0	0
	105		6	0	0	Đ	0	0	0	0	0	0	0
_	TOTAL	131	32			47099		0		1656		D	
/24/79	Qua	lity:	1.2	5	Rating:	2				٠			
Seq	Method	Ops	Agency	Sp.	wn Stg	Wind	Weather	Water	Water		Bottom	Sun Angle	Distance
13	11	RB	ADFG		o	0	0	0		0	0	0	0
	INDEX	Liv Chine		Dead hinook	Chinook Redd	Live Chum	Dead Churi	Live Pink	Dead Pink	Live Sockeye	Deed Sookeye	Live Coho	Dead Coho
	101	110	163	0	0	15277	0	a	0	2589	ő	0	0
			0	0	0	0	Ð	a	a	Q.	0	0	0
_	102		•		_	٥	8	0	0	0	0	Đ	D
-	102 103		ŏ	0	Q	•	_						
-			-	0	0	o	ō	0	0	0	0	-	D
-	103		0	0 0 0	0	-	_	0	0	0	0	0	0 0

Latitude: 605036N Longitude: 1575049W

/11/80	Qua	lity	1.25	1	Rating:	2							
Seq	Method	Obs 4	gency	Spa	wn Stg	Wind	Weather	Water		r Via.	Bottom	Sun Angle	Distance
14		RB	ADFG		0	0	0	. 0	_	0	0	0	0
	INDEX	Live Chinos		ad ook	Chinook Redd	Live Chum	Dead Chus	Live Pink	Dead Pink	Live Soakeye	Dead Sockeye	Live Coho	Dead Coho
_	101	657	2	0	0	41777	. 0	0	0	3200	0	0	0
	102		0	0	0	0	Q	0	0	0	0	0	0
	103		0	0	0	0	0	0	D	0	0	0	0
	104		0	0	0	0	0	. 0	0	6	0	0	0
	105		0	0	0	0	0	0	0	¢	0	0	0
	TOTAL	657	2			41777		0		3200		6	
/05/81			<del></del>				OPERATION	7/1-7/11 DO	E TO HIC	H WATER.			
		lity	1.25		MENT FOR (  Rating:	5/29-7/31. 1	OPERATION Westher	7/1-7/11 DU			Bottom	Sun Angle	Distance
Seq 	Qua	lity:	1.25	Spa	Rating:	1 Wind	Weather	Water		r Vis.		Sun Angle	
Seq	Qua Method	lity:	1.25	Spa	Rating:	1 Wind	Weather	Water	Water	. Vie.		•	
Seq 	Qua Method	lity:	1.25 gency ADFG	Spa	Rating:	1 Wind	Weather	Water	Water	r Vis.			
8eq	Qua	lity: Obs /	1.25 genay ADFG	Spar	Rating: wn Stg	1 Wind	Weather	Water  0	Water	r Vis. 1	0		D
8eq	Qua Method  11 INDEX	lity: Obs /	1.25 gency ADFG De k Chin	Spar	Rating: wn Stg  0 Chinook	1 Wind 0	Weather 0	Water  0 Live	Water  Dead	r Vis.	0 Dead	6 Live Coho	Dead
8eq	Qua Method  11 INDEX	Obs A	1.25 gency ADFG De k Chin	Spar ad ook	Rating: wn Stg  Chinook Redd	1 Wind 0 Live Chum	Weather 0 Dead Chun	Water  0 Live Pink	Water  Dead Pink	Vis.  Uis.  Uis.	0 Dead Sockeye	6 Live Coho	Dead Coho
8eq	Qua Method  11 INDEX 101 102 103	Obs A	1.25 gency ADFG De k Chin	Sparadook	Rating: wn Stg  Chinook Redd  O O	1 Wind 0 Live Chum	Weather 0 Dead Chus	Water 	Dead Pink	Vis.  D  Live Sockeye  17702	Dead Sockeya	11532 0	Dead Coho
Seq 	Qua Method  11 INDEX 101 102 103 104	Obs A	1.25 gency ADFG De k Chin	Spar ad ook	Rating: wn Stg  Chinook Redd  O  O  O	1 Wind 0 Live Chum 56495 0 0 0	Weather  0 Dead Chun  0 0	Water	Dead Pink	Vis.  D Live Sockeye  17702 0 0	Dead Sockeya	11532 0 0	Dead Coho
8eq	Qua Method  11 INDEX 101 102 103	Obs A	1.25 gency ADFG De k Chin	Sparadook	Rating: wn Stg  Chinook Redd  O O	1 Wind 0 Live Chum	Weather 0 Dead Chus	Water 	Dead Pink	Vis.  D  Live Sockeye  17702	Dead Sockeya	11532 0	Dead Coho
	Qua Method  11 INDEX 101 102 103 104	Obs A	1.25 gency ADFG De k Chin 5 0 0	Spar ad ook	Rating: wn Stg  Chinook Redd  O  O  O	1 Wind 0 Live Chum 56495 0 0 0	Weather  0 Dead Chun  0 0	Water	Dead Pink	Vis.  D Live Sockeye  17702 0 0	Dead Sockeya	11532 0 0	Dead Coho

1147

8327

103

104

105

TOTAL

3009

Drainage: KOGRUKLUK RIVER/SOLITNA R.

9/14/82	Qua	lity:	1.25	Rating	2		•					
Seq	Method	Obs	Agency	Spawn Stg	Wind	Weather	Water	Water	Vis.	Bottom	Sum Angle:	Distance
16	11	DS	ADFG	0	0	0	a		0	0	0	0
	INDEX	Liv Chino			Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Cobo	Dead Coho
-	101	109	90	0 0	51853	0	0 ,	0	20654	0	38961	0
	102 103		0	0 0	0	0	0	0 0	0	. 0	0	0
	104		0	0 0	Ď	ō	0	Ŏ	0	0	0	ō
	105		0	0 0	. 0	0	0	0	0	•	0	0
-	TOTAL.	109	90		51053		0		20654	<u> </u>	38961	
00/97/83	TOTAL SE HIGH WAT	ason es	CAPEMENT E	STIMATE 6/29	-7/31 FOR CE	IIHOOK, SOCK	_	8/10-9/3				14 DUE TO
09/27/83 Seq	TOTAL SE HIGH WAT	ASON ES	1.25	STIMATE 6/29  Rating:  Spawn Stg	-7/31 FOR CE	Weather	EYE, CRUM;	Water	Vis.		FION 7/9-9/	Distance
	TOTAL SE HIGH WAT Qua	ASON ES	CAPEMENT E	Rating	-7/31 FOR CE		EYE, CRUM;	Water	Vis.	BO. OPERAT	PION 7/9-9/	
	TOTAL SE HIGH WAT Qua	LASON ES	1.25 Agency ADFG	Rating: Spawn Stg 0 d Chinook	-7/31 FOR CE 2 Wind  0	Weather	Water	Water	Via.	Bottom O Dead	FION 7/9-9/1	Distance
5eq	Qua	Live Chino	1.25 Agency ADFG	Rating: Spawn Stg 0 d Chinook	-7/31 FOR CE  2  Wind  0  Live Chum	Weather  0 Dead	Water 0	Water 	Via.	Bottom 0 Dead Sockeye	Sun Angle  O  Live Coho	Distance 0

TOTAL SEASON ESCAPEMENT ESTIMATE 6/29-7/31 FOR CHINCOK, SOCKEYE, CHUM; 8/10-9/30 FOR COHO. OPERATION 6/24-7/2, 7/6-11, AND 8/13-9/27 DUE TO HIGH WATER AND AIRCRAFT ACCIDENT.

0

0

Stream: KOGRUKLUK WEIR PROJECT Drainage: KOGRUKLUK RIVER/HOLITNA R.

19/15/84	Qua	lity:	1.25	Rating	1							
Seq	Method	Obs Age	ncy Sp	awn Stg	Wind	Weather	Water	Wate	r Vis. I	ottom	Sun Angle	Distance
16	11	DS AD	 76 .	0	0	0	0		0	. 0	0	0
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chun	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101	4928	0	0	41484	0	0	0	4130	0	29824	0
	102	0	C	0	a	, 0	٥	0	0	6	0	0
	103	0	G	a	0	0	0	Ď	0	0	0	0
	104	0	a	0	0	0	0	0	0	0	0	٥
	105	. 0	a	0	0	0	0	0	O	0	0	0
-	TOTAL,	4928	· · · · · · · · · · · · · · · · · · ·		41484		0	<del></del>	4130		29824	

Latitude: 605036N Longitude: 1575049W

Stream: KRISTIN CREEK Drainage: STONY RIVER Latitude: 610300N Longitude: 1541000W

7/27/85	Qua	lity:	1.	Rating:	1							
Seq	Method	Obs Ag	ency S	pawn Stg	Wind	Heather	Water	Water	r Vis.	Bottom	Sun Angle	Distance
						*			-			
89	6	DS A	DFG	0	1	1	1		1	1	1	5
		Live	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinook	Chinook	Redd	Chum	Chun	Pink	Pink	Sockeye	Sockeye	Coho	Coho
-	101	0	0		0	0	0	0	0	0	0	0
	102	o	0	0	0	0	0	0	0		0	Đ
	103	0	a	0	9	0	0	Q	0	0	0	O
	104	0	á	0	0	0	0	0	0	•	0	0
	105	0	0	D	O	0	a	0	0	0	0	0
-	TOTAL	0			0		0		0	)	0	

//13/84	Óл	lity	0.75	Rating	. 2							
Seq	Method	Obs /	gency	Spavn St	Wind	Weather	Water		r Vis. 1	Bottom	Sun Angle	Distance
39	6	DE	ADFG	1	1	2 .	3	_	2	2	1	70
	INDEK	Live Chinoc	-		·	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101		0	0	0 0	0	0	0	0	0	C	0
	102	10		0	0 876	0	0	0	90	0	0	0
	103	19		0	0 703	0	a	0	60	0	0	ů
	104		3	0	0 57	0	0	9	0	0	0	0
	105		0	0	0 0	0	0	0	a	0	0	0
_	TOTAL	27	3	•	1636	•	0		150	•	0	
/13/84		TURBID 1	O SURVEY.	ENDED SU	RVEY AT HEARE	S APPROACH T	O ICEBOX L.	AND KI	SARALIK R	VER.	<u>.</u>	
Seq		lity:	0.85 gency	Rating Spawn Ste	ı 2	Weather	Water			ottom	Sun Angle	Distance
	Qua Method	Obs A	0.85	Rating	. 2						Sun Angle	Distance
Seq	Qua Method	Obs A	0.85 gency ADFG	Rating Spawn Stg	Wind	Weather	Water		c Vis. I	ottom	l Live	
Seq	Qua Method 6 INDEX	Obs A	C.85 gency ADFG Dea k Chino	Rating Spawn Stg	Wind	Weather 2 Dead	Water  2 Live	Wate	r Via. I	ottom  1 Dead	l Live Coho	 70 De#d
Seq	Que Method  6 INDEX  101 102	Obs A	O.85 gency ADFG Dea k Chino	Rating Spawn Stg  1 d Chino ok Red	Wind 1 ok Live Chum	Weather 2 Dead Chum	Water 2 Live Pink 0	Water Dead Pink	r Vis. I  2 Live Sockeye	Dead Sockeye	1 Live Coho	70 Dead Coho
	Que Method 6 INDEX 101 102 103	Obs A	O.85 gency ADFG Dea k Chino 0 7	Spawn Stg  1 d Chinook Red  0 0	Wind  1 ok Live d Chum	Weather 2 Dead Chum	Water 2 Live Pink 0 0	Dead Pink	r Vis. I  2 Live Sockeye	ottom  1 Dead Sockeye	1 Live Coho	70 Dead Coho
Seq	Que Method 6 INDEX 101 102 103 104	Obs A	O.85 gency ADFG Dea k Chino 0 7 7	Spawn Stg  1 d Chinook Red  0 0 0	Wind  1 ok Live Chum  0 0 0 172 0 538 0 0	Weather 2 Dead Chus	Water 2 Live Pink 0 0	Dead Pink 0 0	Live Sookeya	Dead Sockeye	1 Live Coho	76 Dead Coho 0 0 0
Seq	Que Method 6 INDEX 101 102 103	Obs A	O.85 gency ADFG Dea k Chino 0 7	Spawn Stg  1 d Chinook Red  0 0	Wind  1 ok Live Chum  0 0 172 0 538	Weather 2 Dead Chus	Water 2 Live Pink 0 0	Dead Pink 0 0	Live Sockeye	Dead Sockeye	Live Coho	70 Dead Coho
Seq	Que Method 6 INDEX 101 102 103 104	Obs A	O.85 gency ADFG Dea k Chino 0 7 7	Spawn Stg  1 d Chinook Red  0 0 0	Wind  1 ok Live Chum  0 0 0 172 0 538 0 0	Weather 2 Dead Chus	Water 2 Live Pink 0 0	Dead Pink 0 0	Live Sookeya	Dead Sockeye	1 Live Coho	76 Dead Coho 0 0 0

Drainage: KUSKOKWIM RIVER

Latitude: 604900N Longitude: 1612700W

08/02/85	Qua	lity:	0.8	15	Rating:	2							
Seq.	Method	ОЪя	Agency	, Sp.	awn Stg	Wind	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
85	6	K.P	ADFG		2	1	1	2		2	2	1	45
	INDEX	Li. Chin		Dead hinook	Chinook Redd	Live Chom	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Pead Sockeye	Live Caho	Pead Coho
-	101		0	0	0	0	0	0	0		0	0	0
	102		11	٥	0	575	20	0	0		0	0	0
	103		35	G	0	133	23	. 0	0	C	0	0	0
	104		4	0	0	434	1	0	0		0	0	0
	105		0	0	0	· D	0	Q.	0	(		0	0
-	TOTAL		50			1142		0			)	0	

101 TO A MUD BANK 5 MILES ABOVE THREE STEP MT. TOO TURBID TO SURVEY. TURBIDITY FROM MUD BANK. BLUE CLAY IN WATER REST OF WAY TO BREAST MT. FROM CLAY BANKS IN UPPER RIVER. 104 CANYON CREEK TO BREAST MT.

07/16/88	Qua	lity:	0.7	Rating:	3							
Seq	Hethod	-	ency !	Spawn Stg	Wind	Weather	Water	Water		Bottom	Sum Angle	Distance
198	6		DFG	1	2	. 2	3		2	2	1	50
	INDEX	Live Chinook	Dead Chinool	Chinook Redd	Live Chum	Dead Chus	Live Pink	Dead Pink	Live Sockeye		Live Coho	Dead Coho
_	101	87	,	) B	562	0	G.	0		0	0	0
	102	25		0	114	0	0	0		0	0	0
	103	0	) (	0	0	0	0	0		0	0	0
	104	0	1 (	) D	a	0	0	0	(	0	0	8
	105	0	1 (	0	٥	a	Q	0	(	0	0	0
_	TOTAL	112			696		0		(	<del></del>	0	

Water=3 from 3-step Mountain to Devil's Elbow. Water=2 above Devil's Elbow. Survey began at 3-step Mt., ended at Canyon Creek. C-172RG.

Stream: KWETHLUK RIVER Drainage: KUSKOKWIM RIVER Latitude: 604900W Longitude: 1612700W

08/02/88	Qua	lity:	0.7	Rating	1 2							
8 <b>e</b> q	Method	Oba /	Agency	Spawn Stg	Wind 	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
213	2 <b>F</b>	DS	ADPG	3	2	3	2		2	2	1	50
		Liv		ad Chino		Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chino	ok Chin	ook Red	d Chum	Chus	Pink	Pink	Sockeye	Sockeye	Coho	Coho
-	101		0	0	0 0	Q.	0	0	0	0	0	D
	102	1	29	3	40 260	390	0	0	35	• 0	0	0
	103	40	68	22 1	31 560	440	0	0	0	0	0	o
	104		D	a	C 0	0	0	D	0		0	a
	105		Đ	a	0 0	0	D	0	0	0	0	a
_												
_	TOTAL	5:	97		820		0		35	j	0	

Began at confluence with Canyon Creek, ended about 5 miles above Three-step Mt., boundary of Area 101. Ratings chinock=2, chum=3. USFWS siroraft piloted by George Walters.

Drainage: CANYON CREEK/KWETHLUK R. Latitude: 601600N Longitude: 1595000W

7/31/85	Qua	lity:	0.9	Rating:	3							
Seq	Method	Obs Age	ncy Sp	awn Stg	Wind	Weather	Water			Bottom	Sum Angle	Distance
95	6	KF AD	₽G	1	1	3	1		1	1	1	3
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Bockeye	Dead Sockeye	Live Coho	Dead Coho
	101	. 1	0	0	0	0	0	0	0	0	0	0
	102	, O	0	G	0	Ð	0	¢	0	0	0	0
	103	0	0	. 0	0	0	0	0	0	0	0	0
	104	0	0	0	0	0	0	0	D	0	0	0 .
	105	0	0	0	0	0	0	0	0	0	0	D
_	TOTAL	1			0		0		0	·	0	

Stream: LITTLE SWIFT CREEK

Seq	Method	_		awn Stg	Wind	Weather	Water	Wate	r Via.	Bottom	Sun Angle	Distance
41	10		FG	0	0	0	0	_	 0	0	0	0
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	3260	0	Ð	19003	0	13744	0	32053	0	249	0
	102	0	6	0	0	0	0	0	0	0	0	0
	103	0	0	0	0	. 0	D	0	0	0	0	0
	104	a	0	G	0	D	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0	0	0
_	TOTAL	3260			19003		13744		32053		249	
	THE PROJ	ECT WAS TE				31. ESTIM					COTAL TOWER	COUNTS.
24/86 Seq	THE PROJ	Lity:	RMINATEO 7	Rating:	9 PROPERLY 1	ASSESS THE	COHO OR PIN	K BALMOI	r Vis.		Sun Angle	COUNTS.  Distance
24/86	THE PROJ	Obs Age	RMINATED 7	Rating:	O PROPERLY	ASSESS THE	COHO OR PIN	K BALMOI	MACKUEA N	<b>CE.</b>		
24/86 Seq	Qua	Obs Age	RMINATED 7	Rating:	1 Wind	ASSESS THE	COMO OR PIN	K BALMOI	r Vis.	dottom	Sun Angle	Distance
24/86 Seq	Qua Method 10 IHDEX	Cobs Age  KS AL	RHINATEO 7: 1.25 ney Sp. FG Dead	Rating: awn Stg  Chincok	1 Wind D	Weather 0	Water	Water Dead	r Vis. )	Sottom 0 Dead	Sun Angle	Distance 0 Dead
24/86 Seq	Qua Method 10 INDEX	Chinook	RHINATEO 7: 1.25 ney Sp. FG Dead Chinook	Rating:  awn Stg  Chinnok Redd	1 Wind 0 Live Chum	Weather  O  Dead Chum	Water	Water Dead Pink 0	r Vis. ) 0 Live Sockeye	Sockeye	Sun Angle  6 Live Coho	Distance 0 Dead Coho
24/86 Seq	Qua Method 10 INDEX 101 102 103	Chinook	RHINATEO 7: 1.25 ney Sp. FG Dead Chinook	Rating:  awn Stg  Chinnok Redd  0	1 Wind Chum 14756 0	Weather  O  Dead Chum	Water	Water Dead Pink 0 0	Vis. 100 Live Sockeye 0	Bottom  O  Dead Sockeye  O  O	Sun Angle  0 Live Coho  163 0	Distance 0 Dead Coho
24/86 Seq	Qua Method 10 IHDEX 101 102 103 104	Chinook	RMINATEO 7: 1.25 ney Sp. FG Dead Chinook	Rating:  awn Stg  Chinnok Redd  D  D	1 Wind	Weather  O  Dead Chum	Water	Water Dead Pink  0 0	T Vis. 1	Bottom  O  Dead Sockeye  O  O	Sun Angle  0 Live Coho  163 0 0	Distance 0 Dead Coho
24/86 Seq	Qua Method 10 INDEX 101 102 103	Chinook	RHINATEO 7: 1.25 ney Sp. FG Dead Chinook	Rating:  awn Stg  Chinnok Redd  0	1 Wind Chum 14756 0	Weather  O  Dead Chum	Water	Water Dead Pink 0 0	Vis. 100 Live Sockeye 0	Bottom  O  Dead Sockeye  O  O	Sun Angle  0 Live Coho  163 0	Distance 0 Dead Coho

COUNT OF SOCKEYE, AND 84% COUNT OF CHUM SALMON.

Drainage: EEK RIVER Latitude: 600800M Longitude: 1613500W

7/27/87	Qua	lity	1.	Rating:	1							
Seq	Method	Obe Age	nc <b>y</b> Sp	awn Stg	Wind	Weather	Water	Water	Vie.	Bottom	Sun Angle	Distance
161	27	DH AD	PG	2	1	1	1		1	1	1	60
	INDEX	Live Chineek	Dead Chinook	Chinoek Redd	Live Chum	Dead Chum	Live Pink	Doed Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101	387	Ō	0	0	0	0	0	0	0	0	0
	102	0	0	0	0	0	0	0	0	D	0	0
	103	0	0	0	0	0	0	0	. 0	0	0	Đ
	104	0	0	٥	0	0	0	0	0	0	0	0
	105	Q	0	0	0	0	0	0	0	0	0	0
-	TOTAL	387			0	<del></del>	0		0		0	<del></del>

Stream: MIDDLE FORK EEK RIVER

observer, Ray Jones, accompanied.

Page

Latitude: 592400N Longitude: 1603600W

Hethod 6	Obs DS Live Chine	Agency  ADFG	Sp	avn Stg	Wind  2	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
INDEX	DS Liv	ADFG										
		_			-	5	1		1	1	1	20
101			Dead inook	Chinook Radd	Live Chum	Dead Chim	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Deed Coho
		5	0	0	0	D	0		0	0	0	0
102	15		0	0	a	0	Đ	0	. 0	0	0	0
103		15	0	0	0	0	0	0	0	_	0	0
104	10		_	_	0	•	•	•	_	_	0	0
105		O	0	a	0	0	Q	0	0	0	0	0
OTAL	17:	55			0		Ó		0		0	
Hethod	Obs /	Agency		awn Stg	Wind	Weather	Water				-	Distance
6	KS	ADFG		1	1	4	1			1	1	30
INDEX				Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sookeye	Dead Sockeye	Live Coho	Dead Coho
101		0	0	0	0	D	0	0	_	-	0	0
102	;		0	0	q	0	0	0			0	0
		-	_	_	a	0	C	0	0	0	0	0
		_	_	-	•	0	-	_		-	-	0
105		0	0	Q	Q	0	0	0	D	0	0	0
OTAL		12			0				1175		0	
N 11 11 11 11 11 11 11 11 11 11 11 11 11	Qual Method 6 NDEX 101 102 103 104 105	OTAL 17: LL LAKES EXCEP  Quality: Method Obs  6 KS  Live NDEK Chinol 101 102 103 104 105	OTAL 1755  LL LAKES EXCEPT MORTH  Quality: 0.85  Method Obs Agency  6 KS ADFG  Live 1  101 0  102 12  103 0  104 0  105 0	OTAL 1755  LL LAKES EXCEPT NORTH LAKE  Quality: 0.85  Method Obs Agency Sp	OTAL 1755  LL LAKES EXCEPT MORTH LAKE (101, 102)  Quality: 0.85 Rating:  Method Obs Agency Spawn Stg	OTAL 1755 0  LL LAKES EXCEPT NORTH LAKE (101, 102) SURVEYED.  Quality: 0.85 Rating: 2  Method Obs Agency Spawn Stg Wind  6 KS ADFG 1 1  Live Dead Chinook Live NDEK Chinook Chinook Redd Chuss  101 0 0 0 0  102 12 0 0 0  103 0 0 0 0  104 0 0 0 0  105 0 0 0	OTAL 1755 0  LL LAKES EXCEPT NORTH LAKE (101, 102) SURVEYED.  Quality: 0.85 Rating: 2  Method Obs Agency Spawn Stg Wind Weather  6 KS ADFG 1 1 4  Live Dead Chinook Live Dead Chinook Chinook Redd Chus Chus  101 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OTAL 1755 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OTAL 1755 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OTAL 1755 O O O O O O O O O O O O O O O O O O	OTAL 1755 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	OTAL 1755 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Latitude: 592400W Longitude: 1603600W

	- Arre	lity	0.95	Ratings	1							
8eq	Method	-	ncy Sp	awn Stg	Wind	Weather	Water	Water		Bottom	Sum Angle	Distance
46	6		)FG	2	1	2	1		1	1	1	35
	IMDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Cham	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
	101	287	0	0	6	0	0	0	622	0	0	0
	102	36	2	Đ	0	0 '	0	0	6450	1	0	0
	103	0	G	0	G	0	0	٥	0	0	-	0
	104	0	0	0	0	0	0	0	0	0	-	0
	105	0	0	0	Q	0	Đ	0	0	0	0	0
_	TOTAL	323	·		0	<del></del>	0		7072	<del></del>	0	
/25/85		ODES 109,	104 AMD 10	5. OBSERVI	ER DID NOT	KNOW INDEX	areas.					
Seq		Lity: Obs Ag	0.9 mcy 5p	Rating:	2 Wind	Weather	Water			ottom	Sun Angle	Distance
	Qua	lity: Obs Ag	0.9	Ratings	2					Sottom  1	Sun Angle	Distance
Seq	Qua	lity: Obs Ag	0.9 ency 5p	Rating:	2 Wind	Weather	Water				2 Live	
Seq	Qua Mathod 6 INDEX	lity: Obs Ag	0.9 mcy Sp  DFG Dead	Rating: awn Stg 1 Chinook	2 Wind  2 Live	Weather  2 Dead	Water  1 Live	Dead	Live Sockeye	1 Dead	2 Live Coho	90 Dead
Seq	Qua Mathod 6	Obs Ag 	0.9  moy Sp  DFG  Dead Chinook	Rating: awn Stg 1 Chinook Radd	Wind 2 Live Chum	Weather 2 Dead Chus	Water  1 Live Pink	Dead Pink	l Live Sockeye	1 Dead Sockeye	2 Live Coho	90 Dead Coho
Seq	Qua Method 6 INDEX 101 102 103	Obs Ag 	0.9 may Sp DFG Dead Chinook	Rating: awn Stg 1 Chinook Redd	2 Wind  2 Live Chum	Weather 2 Dead Chum	Water  1 Live Pink	Dead Pink	Live Sockeye 175 6375	1 Dead Sockeye	2 Live Coho	90 Dead Coho
Seq	Qua Method 	Obs Ag 	0.9 may Sp DFG Dead Chinook 0	Rating: awn Stg 1 Chinook Redd	2 Wind  2 Live Chum	Weather 2 Dead Chum	Water 1 Live Pink 0	Dead Pink 0	Live Sockeye	Dead Sockeye	2 Live Coho	90 Dead Coho
Seq	Qua Method 6 INDEX 101 102 103	Obs Ag.  KS Ai  Live Chinook  208	0.9 may Sp DFG Dead Chinook 0 0	Rating: awn Stg 1 Chinook Redd 0 0	2 Wind  2 Live Chum	Weather 2 Dead Chum	Water 1 Live Pink 0 0	Dead Pink	Live Sockeye 175 6375	Dead Sockeye	2 Live Coho	90 Dead Coho
Seq	Qua Method 	Chinook	0.9 may Sp DFG  Dead Chinook	Rating: awn Stg 1 Chinook Redd 0 0	2 Wind  2 Live Chum	Weather 2 Dead Chass 0 0 0	Water 1 Live Pink 0 0	Dead Pink	1 Live Sockeye 175 6375 0 190	Dead Sockeye	Live Coho	90 Dead Coho 0 0 0

Paí

Latitude: 592400N

Longitude: 1603600W

/01/85	Qua	lity:	0.6	Rating	3							
Seq	Method		eno <b>y</b>	Spawn Stg	Wind	Weather	Water	Wate	r Vis.	Bottom	Sun Angle	Distance
71	6		ADFG	-2	3	3	3		3	1	2	10
		Live	Dea	i Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chineo	c Chino	ok Redd	Chum	Chusa	Pink	Pink	Sockeye	Sockeye	Coho	Coho
_	101		<del></del>	0 0	0	0	0	0	2455	•	0	<u>_</u>
	102		)	0 0	0	0	0	0	0	0	0	0
	103		)	D 6	a	0	0	0	0	0	0	0
	104		•	0 0	0	0	0	0	O	0	o	0
	105	1	•	0 0	0	0	0	0	0	q	0	0
_	TOTAL		)	· ··. ·-·	0	· <del>-</del> · · · · · · · · · · · · ·	0		2455		0	
/01/AS				CURING SURVE					<u> </u>		· · · · · · · · · · · · · · · · · · ·	
/01/85 Eas	Qua	lityı	0.9	Ratings	3	Masshau		li-e e e				Distance
/01/85 Seq		lity:				Weather	Water	Water		Bottom	Sum Angle	Distance
	Qua Method	lity:	0.9 sency	Rating: Spawn Stg	3 Wind						-	
54q	Qua Method	lity:	0.9	Rating: Spawn Stg	S Wind	' '			-			
54q	Qua Method	Obs A	0.9 Lency LDFG	Rating: Spawn Stg 2 Chinook	3 Wind  2	2	1		1	1	1	70
54q	Qua Method  6 IMDEX	Obs A	0.9 Lency LDFG Dea	Rating: Spawn Stg 2 Chinook	Wind 2 Live	2 Dead	1 Live		1 Live	1 Dead	1 Live	70 Dead
54q	Qua Method  6 IMDEX 101 102	Obs A	0.9 Lency LDFG Dea	Rating: Spawn Stg 2 Chinook ok Redd 0 0	Wind 2 Live Chum	2 Dead Chum	1 Live Pink	Dead Pink O	Live Sockeye	Dead Sockeye	1 Live Coho	70 Pead Cohe
54q	Qua Method 	Obs A	0.9 Lency LDFG Deac Chino	Rating: Spawn Stg2 Chinook ok Redd 0 0 0	Wind  2  Live Chum	Dead Chum 0 0	Live Pink	Pink  0 0	Live Sockeye 4900	Dead Sockeye	live Coho	70  Dead Cohe
54q	Qua Method  6 IMDEX 101 102 103 104	Obs A	0.9 Lency Dea	Rating: Spawn Stg  2 Chinook k Redd 0 0 0 0 0 0	Wind  2  Live Chum  0 0 0	Dead Chum 0 0 0	Live Pink	Pink  0 0 0	Live Sockeye 4900 0	Dead Sockeye	Live Cohe	70  Dead Cohe  0 0 0 0
54q	Qua Method 	Obs A	0.9 Lency LDFG Deac Chino	Rating: Spawn Stg2 Chinook ok Redd 0 0 0	Wind  2  Live Chum	Dead Chum 0 0	Live Pink	Pink  0 0	Live Sockeye 4900	Dead Sockeye	live Coho	70  Dead Cohe
54q	Qua Method  6 IMDEX 101 102 103 104	Obs A	0.9 Lency Dea	Rating: Spawn Stg  2 Chinook k Redd 0 0 0 0 0 0	Wind  2  Live Chum  0 0 0	Dead Chum 0 0 0	Live Pink	Pink  0 0 0	Live Sockeye 4900 0	Dead Sockeye	Live Cohe	70  Dead Cohe  0 0 0 0

Latitude: 592400N Longitude: 1603600W

Drainage: MIDDLE FORE GOODNEWS RIVER

09/04/85	Qua	Lity:	0.	.75	Ratings	2			•				
Seq  78	Method	Obs  FD	Appro	•	awn Stg	Wind  2	Weather  2	Water  2		r Vis.  2	Botton  2	Sum Angle	Distance 
	INDEK	Li. Chin	V4	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Cobo	Dead Coho
_	101		0	0	. 0	0	0	· ·	q	3000	, 0	0	
	102		0	0	0	0	0	0	Q	0	0	0	(
	103		0	0	0	0	O	0	0	0	• •	0	•
	104		0	0	0	a	0	0	Q	0	0	0	
	105		0	0	0	0	. 0	0	0	. 0	0	0	0
	TOTAL		_			a		0	•	3000	)	0	•

FRED DECICCO, SF DIV., FLOAT TRIP. FEW CHIMOOK, SOCKEYE SPANNING ON MARGIN OF KUKAKTLIN L. AND IN FIRST 1/4 MILE OF OUTLET.

7/26	/86	Qua	lity:	0.95		Rating:	1							
	Seq	Hethod	Oba A	Agency	8pa	wn Stg	Wind	Weather	Water	Wate	r Vis.	Bottom	Sum Angle	Distance
	+				•					-				
	113	6	D\$	ADFG		1	1	1	1		1	2	1	10
		INDEX	Live		ad	Chinook Redd	Live Chum	Dead Chun	Li <b>ve</b> Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
		THURA	CELTIO	DK CHIL	IOOK.	Redu	Germin	Citiza	FILE	P LUK	Bookeye	, pockeye	4000	طبدوه
	_	101		0	0	•	0	. о	0	0	8540	0	0	0
		102		0	0	0	0	0	0	0	C	0	0	0
		103		0	0	В	D	0	0	G	0	0	0	0
		104		0	0	0	0	0	D	a	C	0	0	D
		105		0	0	0	0	0	0	0	O		0	0
	_	TOTAL		D		<del> </del>	0		. 0		8540	)	0	

Latitude: 592400N

Longitude: 1603600W

7/28/87	Qua	lity:	0.9	Ratings	1							
Seq	Kethod	,	gency	Spawn Stg	Wind	Weather	Water	Wate	r Vis.	Bottom	Sun Angle	Distance
179			ADPG	2	1	1	2	-	1	2	1	86
	INDEX	Live Chinool	Deac k Chinoc		Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sookeye	Live Cobo	Dead Coho
_	101			0 0	0	0	0	0	2114	0	0	
	102	1	)	0 0	0	0	Q	0	0	0	0	0
	103	4	D	0 0	Ď	G	Ö	0	877	0	0	0
	104	1	)	0 0	0	o o	0	0	6657	0	0	D
	105	(	•	0 0	0	0	0	0	14892	0	0	0
и	TOTAL.		)	<del>-</del>	0		0	<del></del> -	24480		0	
	0			•			<u></u>					
7/28/87	Qua	lity:	0.75	Rating:	2							
Seq	Method		tench	Spawn Stg	Wind	Weather	Water		r V14.	Bottom	Sum Angle	Distance,
163	3	KS .	AD <b>F</b> G	2	2	2	2		2	2	1	25
	INDEX	Live Chinool	Dead c Chinoc		Live Cham	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Goho
-	101		_	0 0	D	0,	0	0	960	Đ	0	0
	102		)	0 0	0	0	0	0	0		0	0
	103		-	0	O	0	0	0	421	_	0	0
	104		-	0 0	0	0	0	0	0	-	-	0
				0 0	٥	0	-0	0	865	D	0	٥
	105	(	)		_							•
_	105 TOTAL		) )		0		0		2266	<u></u>	. 0	<del></del>

Stream: MIDDLE FORK GOODNEWS LAKES

Latitude: 592400N

/21/87	Qua	lity:	Q.	95	Rating:	3							
8eq	Method	Obs	Agenc	y Sp	awn Stg	Wind	Weather	Water	Water		Bottom	Sun Angle	Distance
166	6	DB	ADFG	; }	3	2	1	1		1	1	1	25
	INDEX	Li Chin		Deed Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101		0	0	0	0	0	0	G	0	0	0	0
	102		ò	Ö	0	0	Ō	0	Õ	0	0	Ó	0
	103		Ð	0	Ð	0.	. 0	O	0	0	0	0	٥
	104		Ð	0	0	0	0	0	0	0	0	0	0
	105		0	0	0	ů	0	0	0	5405	3900	D	0
	TOTAL		0			0	<del></del>	0		5405		0	
	Spawn st		ockeye				ateness for	sockeye.					·
//15/88	Spawn st	age: s	ockeye	=3. Sur	vey rating	-3 due to 1	ateness for	sockeye,				· <del>-</del> ·	
/15/88 Seq	Spawn st		ockeye	95 7 Sp			Weather	Water	Water		Notton 	Sun Angle	Distance
Seq	Spawn et Que	lity: Obs	0.	95 y	Rating:	2 Wind	Weather	Water	•••			_	
Seq	Spawn et Que	lity:	Q. Agend	95 y	Rating:	2 Wind	Weather	Water	•••	-	1 Dead	1 Live	
Seq	Que  Kethod	lity: Obs DS	Q. Agend	95 y Sp.	Rating: swn Stg  1 Chinook	Wind	Weather 1 Dead	Water 1	Dead	i Li <del>v</del> e	1 Dead Sockeye	1 Live Coho	20 Dead
Seq	Que  Hethod  6	lity: Obs DS	Agend ADFG	95 y Sp Dead Chinook	Rating: awn Stg  1 Chinook Redd	Vind 2 Live Chum	Weather  1  Dead Chum	Water 1 Live Pink	Dead Pink	i Live Sackeye	1 Desd Sockeye	1 Live Coho	20 Dead Goho
Seq	Que Hethod 5 INDEX	lity: Obs DS	Agend ADFG	95 y Sp  Dead Chinook	Rating: awn Stg  1 Chinook Radd	Vind 2 Live Chum	Weather  1  Dead Chum	Water 1 Live Pink	Dead Pink	Live Sackeye	Desd Sockeye	1 Live Coho	20 Dead Coho
Seq	Que  Hethod   5  INDEX  101 102 103 104	lity: Obs DS	Agend ADFG	95  Dead Chinook	Rating: awn Stg  1 Chinook Redd 0	Wind 2 Live Chum	Weather  1  Dead Chum  0	live Pink	Dead Fink	Live Sockeye 155 0 400	Dead Sockeye	1 Live Coho	20 Dead Coho
Seq	Que Hethod 5 INDEX 101 102 103	lity: Obs DS	ADFO	95  Dead Chinook	Rating: awn Stg  1 Chinook Redd  0 0	Wind 2 Live Chum	Weather  1 Dead Chum  0 0	Live Pink	Dead Fink	Live Sockeye 155 0 400	Dead Sockeye	1 Live Coho	20 Dead Coho
	Que  Hethod   5  INDEX  101 102 103 104	lity: Obs DS	ADFO	95  Dead Chinook	Rating:  awn Stg  1 Chinook Radd  0 0 0	Wind 2 Live Chum	Weather  1 Dead Chum  0 0 0	Live Pink	Dead Fink	Live Sockeye 155 0 400	Dead Sockeye	Live Coho	20 Dead Coho

Latitude: 590800N

Longitude: 1612900W

7/11/84	Qua	lity	0.75	Rating:	2				_			
Seq	Method	_	ncy Sp	avn Stg	Wind	Weather	Water			ottom	Sun Angle	Distance
42	. 6		FG	1	2	3	1	<del></del> .	2	2	1	80
	İHDEK	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Caho	Dead Coho
-	101	161	0	0	1019	0	1490	0	1068	0	0	. 0
	102	0	0	0	0	0	0	0	0	0	0	0
	103	0	0	0	0	0	0	0	285	0	0	0
	104 105	65 0	0	8	0	0	60 0	0 0	206 0	0	0	0
_												
	TOTAL	226			1019		1550		1559		0	
/11/84			RVEYED COM	PLETE INDE	C AREAS, EX	CEPT AREA 10	02 - DID NO	T SURVE	. LAKES	REPORTED 1	SEPARATELY.	
/11/84 Seq		lity: Obs Age	0.85			Weather	Water	Water	vis. I	REPORTED 1	Sun Angle	Distance
	Qua Hethod	lity:	0.85 ncy Sp	Rating:	2 Wind	Weather		Water	vis. I			Distance
8 <b>e</b> q	Qua Hethod	lity:	0.85 ncy Sp	Rating:	2 Wind 	Weather	Water	Water	Vis. I	ottom  1 Desd	Sun Angle	30 Dead
8eq	Qua Method  6	Obs Age KS AD Live Chinook	0.85 ney Sp FG Dead Chinook	Rating: awn Stg 1 Chinook Redd	2 Wind  1 Live Chum	Weather 4 Dead Chus	Water  1 Live Pink	Water Dead Pink	Vis. I 1 Live Soakeye	ottom  1 Desd Sockeye	Sun Angle  1  Live Coho	30 Dead Coho
8 <b>e</b> q	Qua Method  6 IMDEX	Obs Age KS AD Live Chinook	0.85 ney Sp FG Dead Chinook	Rating: awn Stg 1 Chinook Redd	2 Wind  1 Live Chum	Weather 4 Dead Chus	Water  1 Live Pink	Water Dead Pink	Vis. I Live Soakeye	ottom  1 Desd Sockeye	Sun Angle  1  Live Coho	30 Dead Coho
Seq 	Qua Method 	Obs Age  KS AD  Live Chinook	0.85 ney Sp FG Dead Chinock	Rating: awn Stg 1 Chinook Redd	2 Wind 1 Live Chum	Weather 4 Dead Chuss 0	Water  1 Live Pink  0	Vater Dead Pink	Live Sockeye	ottom  1 Dead Sockeye	Sun Angla  1  Live Coho  0	30 Dead Coho
5eq	Qua Method 	Obs Age  KS AD  Live Chinook  554 0	0.85 ney Sp FG Dead Chinook	Rating: awn Stg 1 Chinook Redd	Uind  Live Chum	Weather 4 Dead Chura 0 0	Water  1 Live Pink  0 0	Water Dead Pink	Live Sockeye	Dend Sockeye	Sun Angla  1  Live Coho  0 0	30  Dead Coho  0 0
8 <b>e</b> q	Qua Method 	Obs Age  KS AD  Live Chinook	0.85 ney Sp	Rating: awn Stg 1 Chinook Redd	2 Wind 1 Live Chum	Weather 4 Dead Chuss 0	Water  1 Live Pink  0	Dead Pink	Live Sockeye	ottom  1 Dead Sockeye	Sun Angla  1  Live Coho  0	30 Dead Coho
	Qua Method 	Obs Age  KS AD  Live Chinook  554 0 2 114	0.85 ney Sp FG Dead Chinock 0 0	Rating: awn Stg 1 Chinook Redd 0 0	Uind  Live Chum	Weather  4  Dead Chust  0 0 0	Water  1 Live Pink  0 0	Vater Dead Pink 0 0	Live Sockeye 175 0 125 100	Dead Sockeye	Sun Angla  1  Live Coho  0  0  0	30  Dead Coho  0 0 0

Drainage: GOODNEWS RIVER

07/27/84	Qua	lity:	0.95	Rating	: 1							
Seq	Hethod	Obs /	lgenay	Spawn Stg	Wind	Weather	Water	"	r <b>V</b> 1s.	Bottom	Sun Angle	Distance
43	6	X.F	ADFG	2	1	2	1		1	1	1	35
		Live				Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinoc	k Chin	ook Red	d Chum	Chum	Pink	Pink	Bockey	s Sockeye	Coho	Coho
-	101	67	19	81	0 10041	0	0	a	(	) 0	0	0
	102		0	0	Ç 0	D	0	0	500	) 0	0	Ò
	103	13	14	11	0 187	6	0	0	973	0	0	0
	104		0	0	<b>Q</b> 0	0	٥	0	(	) 0	0	0
	105		0	0	0 0	0	0	0	(	0	0	0
-	TOTAL	81			10228		0		1475	<u> </u>	. 0	

BROWN BEAR IN 103. 102 LOWER 4 MILES WAS DRY DUE TO LOW WATER CONDITIONS PREVENTING LATER RUE FISH ACCESS TO LAKE. KING SPANN STAGE 2, CHUM 1, SOCKEYE 1.

07/25/85	Qua	lity:	0.9		Rating:	2							
Seq	Hethod	Obs	Agency	Sp	ewn Stg	Wind	Weather	Water	Water	. Vis.	Bottom	Sun Angle	Distance
							***						
81	6	KS	ADFG		1	2	2	1		1	1	2	90
	INDEX	Li <b>v</b> Chino		ead nook	Chinosk Redd	Live Chom	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dezd Coho
-	101	6	21	0	0	1750	0	0	0	311	. 0	0	0
	102		0	0	0	0	Ð	0	0	15	5 0	0	0
	103		40	0	G	0	D	6	D	33:	5 0	0	G
	104		0	0	٥	0	0	0	0		0	0	0
	105		0	0	0	0	0	0	0	(	0	0	0
_	TOTAL	- 6	61			1750	<del>, - ,</del>		· · · · · · · · · · · · · · · · · · ·	661	l	0	

CLEAR FOR 80 PERCENT OF THE LOWER RIVER. 50 PERCENT CLOUD COVERAGE IN UPPER PORTION OF THE RIVER. STRONG SW WINDS AT 20-25 MPH. SURVEY CONDITIONS FAIR. C-172RG. PILOT POOR.

Stream; MIDDLE FORK GOODNEWS RIVER Drainage; GOODNEWS RIVER

08/01/85 2 Quality: 0.8 Rating: Method Obs Agency Spawn Sta Wind Weather Water Water Vis. Bottom Sun Angle Distance 3 80 DS ADFG 2 2 1 55 Live Dead Chinook Live Dead Live Dead Live Dead Live Dead INDEX Chinook Chinook Redd Chum Chum Pink Pink Sockeye Sockeye Coho Coho 101 1465 0 0 3353 0. O 0 255 112 0 102 Ģ 0 0 0 0 0 0 0 ٥ ٥ ٥ 103 585 240 0 0 104 0 0 û D ٥ ٥ Đ 0 105 0 TOTAL 2050 3593 255 112 GOOD SURVEY BELOW KUKTLIM CR. FAIR SURVEY TO LAKES. 08/01/85 Quality: 0.9 Ratings Method Obs Agency Spawn Stg Wind Weather Water Water Vis. Bottom Sun Angle Distance 2 69 KS ADFG 2 . 2 1 1 1 1 70 Live Dead Chinook Live Dead Live Dead Live Dead Live Dead INDEX Chinook Chinook Redd Chum Chum Pink Pink Sockeye Sockeye Cobo Coho 101 1344 0 0 4180 0 0 315 0 ø 0 102 0 0 Ü 0 G 0 0 û 103 433 0 220 0 0 0 0 104 0 0 0 0 Ð 0 0 0 105 Ò O 1777 TOTAL 4400 0 315 THE MIDDLE AND LOWER PORTIONS OF THE RIVER WAS CLEAR SKYS AND EXCELLENT SURVEY CONDITIONS. THE UPPER PORTION OF RIVER WAS CLOUDY: FAIR SURVEY CONDITIONS. C-172RG

Latitude: 590800N

Longitude: 1612900W

Drainage: GOODNEWS RIVER

Stream: MIDDLE FORK GOODNEWS RIVER

Latitude: 590800N Longitude: 1612900W

09/04/85	Qua	lity:	0.7	5	Ratings	2							
5eq	Method	Obs	Agency	Sp	evn Stg	Wind	Weather	Water	Water	. Via.	Bottom	Sun Angle	Distance
77		FD	ADFG		3	2	2	2		2	2	1	45
	INDEX	Liv Chine		Dead hinook	Chinook Redd	Live Chum	Dead Chun	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Cobo	Dead Coho
-	101	<del></del>	0	11		<u> </u>	2		<u> </u>		· · ·	<u>.</u>	0
	102		Ď	0	Ŏ	ŏ	ō	Ŏ	ŏ	ì		ō	ō
	103		D	0	0	0	0	6 .	0	C	•	0	0
	104		0	0	0	0	0	0	0			ø	0
	105		Ð	0	0	G	0	Ċ	0	0	0	0	0
_	TOTAL		0			0		0		0	)	0	

FLOAT TRUP BY FRED DEGICCO, SF DIV., AUG27-SEP4. FEW LIVE CHINOOK, SOCKEYE SPANNING ON MARGIN OF KUKAKTLIM L. AND IN FIRST 1/4 MILE OF OUTLET. COBO NOT SPANNING YET: NO COUNT BUT PRESENT FROM 1 MILE BELOW LAKE DOWN - COMMON BUT NOT MIMEROUS.

7/26/86	Qua	lity:	0.9	Rating:	. 2	•						
Seq	Nethod	Obs Ag	ency Sp	awn Stg	Wind	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
112	6	DS A	DFG	2	1	1	1		2	2	1	50
		Live	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinook	Chinook	Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Coho	Coho
	101	655	0	0	7460	0	500	0	8410	0	4400	0
	102	0	0	0	0	0	Ò	0	D	D	0	0
	103	0	•	O O	Ð	0	0	0	0	0	G	0
	104	594	0	G	185	0	0	0	40	0	0	0
	105	0	0	0	0	0	0	0	0	٥	0	q
_												
_	TOTAL	1249	· ·- ·- ·- ·		7645		500		8450		4400	

70 CHINOOK COUNTED BELOW TOWER SITE. 2775 SOCKEYE BELOW TOWER. 4000 COHO BELOW TOWER. 2100 CHUM BELOW TOWER. BEGAN AT MOUTH; ENDED AT KUKAKTLIM L.

	400	lity:	1.	Rating:	2							
8eq	Mathod	Obs A	gency	Spawn Stg	Wind	Weather	Water	Wate	r Via.	Bottom	Sun Angle	Distance
103	3	KS	ad <b>y</b> g	2	1	1	1		1	1	1	12
	INDEX	Live			Live Chum	Dead Chun	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101	23	-	D 0	515	0	0	0	2400	0	0	0
	102		_	0 0	0	0	0	0	0	D	0	0
	103		_	o o	0	0	o	0	0	0	0	Đ
	104		_	0	0	0	0	0	0	a	0	0
	105		0	0	0	0	0	0	0	0	0	Q
_	TOTAL	2:	0		515		0		2400		0	
126/87	MILES UP			S SALMON BET WERE NOT E Rating:		JRRENT TOWER	SITE AND 1	THE PROP	DSED NEW	TOWER SITE	, AW ADDITIO	OHAL 12
	WILES UP	RIVER.	PINK SALMO	Rating:	HUMERATED.							
Seq	Qua	Obs A	0.75	WERE NOT E	HUMERATED.	Weather		Water		Bottom	Sun Angle	Distance
Seq	Qua	RIVER.	PINK SALMO 0.75	Rating:	HUMERATED. 3	Weather	Water	Water	· Via.	Bottom	Sum Angle	Distance
Seq	Qua	Obs A	0.75 gency ADFG	Rating:  Rating:  Spawn Stg 1  Chinook	Wind	Weather	Water	Water	· Via.	Bottom  2 Dead	Sun Angle	Distance
Seq	Qua Hethod  3	Obs A	0.75 gency ADFG Dead	Rating:  Rating:  Spawn Stg 1  Chinook c Redd	Wind  Live Chum	Weather 1 Dead Chum	Water 3 Live Pink	Water  Dead Pink	Tive Sockeye	Bottom 2 Dead Sockeye	Sun Angle 1 Live Coho	Distance  48 Dead Coho
Seq	Qua Hethod  3 INDEX	Obs A  Live Chinoc	0.75 gency ADFG Dead k Chinoo	Rating:  Rating:  Spawn Stg 1  Chinook c Redd	Wind Live Chum	Weather  1  Dead Chum	Water 3 Live Pink	Water Dead Pink	Live Sockeye	Bottom 2 Dead Sockeye	Sun Angle  1 Live Coho	Distance 48 Dead Goho
Seq	Qua Hethod  3 INDEX	Obs A  Live Chinoc	0.75 gency ADFG Dead k Chinoo	Rating:  Rating:  Spawn Stg 1  Chinook c Redd	Wind Live Chum	Weather  1  Dead Chum	Water  3 Live Pink  0	Water Dead Pink	Live Sockeye 1595	Bottom  2  Dead Sockeye	Sun Angle 1 Live Coho	Distance A8 Dead Goho
Seq	Qua Hethod  3 INDEX	Obs A  Live Chinoc	O.75  gency  ADFG  Dead  k Chinoo	Rating:  Rating:  Spawn Stg 1  Chinook c Redd	Wind  Live Chum  1641 0	Weather  1  Dead Chum	Water  3 Live Pink  0 0	Dead Pink	Live Sockeye 1595 1225 269	Bottom  2  Dead Sockeye  0 0	Sun Angle  1 Live Coho 0 0	Distance 48 Dead Goho 0
Seq	Qua Hethod  3 INDEX 101 102 103 104	Obs A  Live Chinoc	O.75 Sency ADFG Dead k Chinoo	Rating:  Rating:  Spawn Stg 1  Chinook c Redd	Wind Live Chum  1641 0 411	Weather  1 Dead Chum  0 0 0	Water  3 Live Pink  0 0 0	Dead Pink	Live Sockeye 1595 1225 269 265	Bottom  2  Dead Sockeye  0 0 0	Sun Angle  1 Live Goho 0 0	Distance A8 Dead Goho 0 0
Seq	Qua Hethod  3 INDEX	Obs A  Live Chinoc	O.75 Sency ADFG Dead k Chinoo	Rating:  Rating:  Spawn Stg 1  Chinook c Redd	Wind  Live Chum  1641 0	Weather  1  Dead Chum	Water  3 Live Pink  0 0	Dead Pink	Live Sockeye 1595 1225 269	Bottom  2  Dead Sockeye  0 0	Sun Angle  1 Live Coho 0 0	Distance 48 Dead Goho 0
Seq	Qua Hethod  3 INDEX 101 102 103 104	Obs A  Live Chinoc	O.75 Sency  ADFG  Dead  Chinoo  8 0 0	Rating:  Rating:  Spawn Stg 1  Chinook c Redd	Wind Live Chum  1641 0 411	Weather  1 Dead Chum  0 0 0	Water  3 Live Pink  0 0 0	Dead Pink	Live Sockeye 1595 1225 269 265	Bottom  2  Dead Sockeye  0 0 0	Sun Angle  1 Live Goho 0 0	Distance A8 Dead Goho 0 0

Streem: MIDDLE FORK GOODNEWS RIVER Drainage: GOODNEWS RIVER

07/28	/87	Qu	ality:	0.	9	Rating:	1							
	Seq	Method		Agency	Sp	evn Stg	Wind	Weather	Water	Wate	r Vie.	Bottom	Sun Angle	Distance
	162	6	DS	ADFG		2	1	1	2		1	2	1	86
•			L	ive	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dend
		INDEX	Chi	nook C	hinook	Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Coho	Coho
	_	101		1580	12	0	7506	73	520	0	1586	0	2420	10
		102		0	D	0	0	0	0	0	0	0	0	0
		103		135	0	0	265	0	0	0	533		0	0
		104		492	3	0	1925	20	0	0	870	20	0	0
		105		0	0	0	0	0	0	0	21489	5	0	0
	_	TOTAL		2207	<del>.</del>		9696		520		24480	1	2420	
		Mont ob	laast .	-+111 da	ادمد داند	in earl on	ndielos i	Spawn stage:	chinook=2	ch	gooke <b>ve</b>	ul cohoul	C-177PG	
		MOSC DIT.	I III III I	errir de		TH BOOK CO.	MATERIAL .	obean scate:		- CM100-5,	, soundy	-1, 00110-1	. 0.51233.	

07/28/87	Qua	lity:	0.75	1	lating	2							
Беq	Method	Obs A	lgency	Span	m Stg	Wind	Weather	Water	Wate	r Vis.	Bottom	Sun Angle	Distance
				-					-				
164	3	KS	ADPC		2	2	2	2		2	2	1	75
		Live	. De	ad	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chine	ok Chin	ook	Redd	Chum	Chun	Pink	Pink	Sockeye	: Bookeye	Coho	Coho
-	101	117	70	5	0	2554	201	0	0	690	) 0	0	0
	102		3	0	0	6	0	g	0	G	a a	0	0
	103	•	14	0	0	5	8	o	0	95		0	0
	104	33	31	0	0	240	0	0	0	75		0	0
	105		0	0	0	0	0	0	0	C	0	G	0
_	TOTAL.	159	8			2805		0 '		860	)	0	
	0												

	Qua	lity	0.95	•	Rating:	2							
Seq	Hethod	Obs.	Agency	Sp	awn Stg	Wind	Weather	Water	Wate	r Via.	Bottom	Sun Angle	Distance
167	6	D8	ADFG		1	2	1	1		1	1	1	52
	INDEX	Liv China		Dead inook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101		65	20	0	0	Ď	Ð	0	473		5343	
	102		0	0	0	0	0	o	Ō	0	å	0	Ō
	103		0	0	G	0	o o	Q	0	0	0	G	0
	104		9	7	0	0	<b>Q</b>	0	0	0	0	113	0
	105		0	0	0	D	0	0	0	0	0	0	9
_	TOTAL		74			0		0		473	<del></del> .	5456	
15/88		vey is	a week 0.9		rly for per	sk counts.	Began at m	outh: ended	at lake	above 1	Kukaktlim (	Creek. C-17	72RG.
15/88 8eq			<del></del>	-			Began at m	outh: ended			Kukektlim (	Sum Angle	Distance
	Qua Hethod	lity:	0.9	-	Ratings	2		-		r Vis.			
8eq	Qua Hethod	lity: Obs	0.9 Agency  ADFG	-	Rating:	2 Wind	Weather	Water	Water	r Vis.	Bottom  2 Dead	Sum Angle	Distance
8eq	Qua Method  6 IMDEX	Obs DS Liv Chine	0.9 Agency ADFG e ok Ch	Sp.	Rating: awn Stg 1 Chinook	Wind  2 Live	Weather 1	Water 1	Water 	vis.	Sottom  2 Dead	Sun Angle	Distance  40 Dead
8eq	Qua Method  6 INDEX	Obs DS Liv	0.9 Agency  ADFG e ok Ch	Sp. Dead inook	Rating: awn Stg  1 Chinook Redd	Wind 2 Live Chum	Weather  1 Dead Chum	Water 1 Live Pink	Water  Dead Pink	Vis.	Pottom  2  Dead Sockeye	Sun Angle  1 Live Coho	Distance 40 Dead Coho
8eq	Qua Method  6 INDEX 101 102 103	Obs DS Liv Chine	0.9 Agency  ADFG e ok Ch	Bp. Dead inook 0 0	Rating: awn Stg  1 Chinook Redd  0 0	2 Wind  2 Live Chum 5628 20 78	Weather  1  Desd Chum  0 0	Water  1 Live Pink  0 0	Water Dead Pink 0	Live Sockeye	Dead Sockeye	Sun Angle  1 Live Coho	Distance
8 <b>e</b> q	Qua Method 6 IMDEX 101 102 103 104	Obs DS Liv Chine	0.9 Agency  ADFG e ok Ch 18 42 71	Sp.  Dead inock  0 0 0	Rating: awn Stg  1 Chinook Redd  0 0	2 Wind  2 Live Chum 5628 20 78 88	Weather  1  Dead Chum  0 0 0	Water  1 Live Pink  0 0 0	Water Dead Pink 0 0	Live Sockeye 2755 143 257 20	Dead Sockeye	Sun Angle  1 Live Coho 0 0	Distance 40  Dead Coho  0 0 0
8eq	Qua Method  6 INDEX 101 102 103	Obs DS Liv Chine	0.9 Agency  ADFG e ok Ch	Bp. Dead inook 0 0	Rating: awn Stg  1 Chinook Redd  0 0	2 Wind  2 Live Chum 5628 20 78	Weather  1  Desd Chum  0 0	Water  1 Live Pink  0 0	Water Dead Pink 0	Live Sockeye 2755 143 257	Dead Sockeye	Sum Angle  1 Live Coho 0 0	Distance 40  Dead Coho  0 0
	Qua Method 6 IMDEX 101 102 103 104	Obs	0.9 Agency  ADFG e ok Ch 18 42 71	Sp.  Dead inock  0 0 0	Rating: awn Stg  1 Chinook Redd  0 0	2 Wind  2 Live Chum 5628 20 78 88	Weather  1  Dead Chum  0 0 0	Water  1 Live Pink  0 0 0	Water Dead Pink 0 0	Live Sockeye 2755 143 257 20	Dead Sockeye	Sun Angle  1 Live Coho 0 0	Distance 40  Dead Coho  0 0 0

Stream: NIXON FORE Drainage: TAKOTNA RIVER Latitude: 630200M Longitude: 1554000W

07/26/87	Qua	lity:	0.7	Rating:	3							
Seq	Hethod	Obs Age	ney St	ewn Stg	Wind	Weather	Water	Water	Vis. B	ottom	Sun Angle	Distance
169	6	DS AD	)FG	0	1	1	3		2	4	2	38
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chua	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Goho
_	101		<u> </u>		•	٨	•		•	0		<del></del>
	102	ů	ő	ő	0	ō	0	ŏ	Ö	ō	ō	Ŏ
	103	0	0	0	0	0	0	0	0	0	0	0
	104 105	0	0	ō	o	. 0	o	0	0	0	0	0
_	TOTAL	.0			0	· · ·	0		0		0	

7/31/85	Qua	lity:	0.55	Rating:	3							
Seq	Method	Obs A	igency	Spawn Stg	Wind	Weather	Water		r Vis.	Botton	Sun Angle	Distance
66	6	DS	ADFG	3	2	3	3	_,	3	3	1	42
	INDEX	Live Chino		Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	:	6	. 0	801	75	0	0	0	0	0	•
	102	:	2	7 0	170	140	0	G	0	. 0	0	0
	103	1	.5	•	45	50	. 0	0	0	0	0	0
	104		0	0	0	0	0	0	0	0	0	0
	105		0	0	0	0 .	0	0	0	0	0	0
	TOTAL				1016	•	6	·- <del></del>				
			NENCE ON E	AST SIDE OF		IT. AND CONT		OUTH.	0	<u> </u>		
7/30/87	STARTED		-	AST SIDE OF		IT. AND CONT		OUTH.				
Seq	STARTED	AT CONDI	UENCE ON E	Rating:	HENDERSON P	Weather	INUED TO MC	Water	: Vis.	Bottom	Sun Angla	Distance
	Que Method	AT CONDI	UENCE ON E	Rating:	HENDERSON 2		INUED TO MO	-	: Vis.			Distance
Seq 	Que Method	AT COMDI	UENCE ON E	Rating:	HENDERSON P	Weather	Hater	Water	7 Vis.	Bottom  2	Sun Angla	42
Seq 	Que Method	AT COMDI	UENCE ON E  0.8  gency  ADFG	Rating:  Spawn Stg  2  Chinook	HENDERSON P	Weather	INUED TO MO	Water	: Vis.	Bottom  2 Dead	Sun Angla	
Seq 	Que Method 	AT COMDI	UENCE ON E  0.8  gency  ADFG  Dead  k Chinoo	Rating:  Spawn Stg  2  Chinook	HENDERSON P	Weather 1 Dead	Water 2	Wate:	Vis.	Bottom  2 Dead Sockeye	Sun Angla 1 Live Coho	42 Dead
Seq 	Que Method 6	AT COMDI	UENCE ON E  0.8  gency ADFG  Dead k Chinoo	Rating: Spawn Stg 2 Chincok Redd	HENDERSON P  2  Wind  1  Live Chum	Weather  1  Dead Chum	Water 2 Live	Water  Dead Pink	Vis. 3 Live Sockeye	Bottom  2 Dead Sockeye	Sun Angle  1  Live Coho	42 Dead Goho
Seq 	Que Method 6 IMDEX	AT COMDI	UENCE ON E  0.8  ganay  ADFG  Dead k Chinoo	Rating: Spawn Stg  2 Chinook Redd	Wind  Live Chum	Weather  1  Dead Chum	Water 2 Live Pink	Water Dead Pink	: Vis. 3 Live Sockeye	Bottom 2 Dead Sockeye	Sun Angle  1  Live Coho	42 Dead Goho
Seq 	Que Method 6 IMDEX 101 102	AT COMDI	UENCE ON E  0.8  gency  ADFG  Dead  k Chinoo	Rating:  Spawn Stg  2  Chinook Redd  31	Wind  Live Chum	Weather  1 Dead Chum	Water 2 Live Pink	Water Dead Pink	Live Sockeye	Bottom 2 Dead Sockeye	Sun Angle  1  Live Coho	Dead Goho
	Que Method 6 IMDEX 101 102 103	AT COMDI	UENCE ON E  0.8  gency  ADFG  Dead  k Chinoo	Rating:  Spawn Stg  2  Chinook Redd  31 17	Wind  Live Chum	Weather  1 Dead Chum  4 21 0	Water 2 Live Pink	Dead Pink	Live Sockeye	Bottom  2  Dead Sockeye  0 0	Sun Angla  1  Live Coho  0 0 0	Dead Goho

Stream: OSKAWALIK RIVER

Began just above Henderson Mt. Surveyed to mouth. Spawn stage: chinook=2, chum=2.

Stream: OSKAWALIK RIVER Drainage: KUSKOKWIM RIVER Latitude: 514430H Longitude: 1581130W

7/20/88	Qua	lity:	0.75	Rating:	2		•					
Seq	Method	Obs Age	ncy Sp	awn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
205	6	DS AU	)FG	2	2	2	1		2	3	1	37
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Goho
-	101	24	0	0	1495	290	0	•		0	0	Q
	102	31	0	0	1205	75	0	0	0	) D	0	0
	103	25	0	0	920	125	0	0	0	0	0	0
	104	0	0	0	0	a	0	0	•	0	0	0
	105	9	0	0	0	0	Q	0	0		0	0
-	TOTAL	80			3620	·	0		0	)	0	

Stream: OYAK CREEK Drainage: KUSKOKWIM BAY Latitude: 594743N Longitude: 1615700W

06/28/88	Qua	lityı		D.9	Rating	1							
S∉q	Method	Oba	Agen	cy S	pawn Sts	Wind	Weather	Water			Bottom	Sun Angle	Distance
189	3	X.F	ADF	- G	1	1	2	1		1	2	1	15
	INDEX	Li Chin		Dead Chinook	Chinook Redd	Live Chus	Dead Chun	Live Pink	Dead Pink	Live Sockeye	Dead Sockeys	Live Coho	Dead Coho
_	101		0	0	0	0	0	0	0	0	0	0	0
	102		۵	0	•	0	G	0	6	0	0	0	0
	103		0	0	0	0	· a	0	O	0	e	0	٥
	104		0	0	0	0	0	0	0	0	c	0	O
	105		0	0	0	0	Q	0	0	0	0	0	0
_	TOTAL		0			0	<del></del>	0		0		0	

Surveyed from Oyak Creek mouth along the entire length of Kilokuyak Creek and the south fork of Oyak Creek to where it joins the Kanektok River. There were 14 beaver dams that completely blocked the stream. Pool size indicated very little flow. The junction of Kilokuyak and Kanektok is a beaver pond marsh with no clear channel joining the two rivers. It is unlikely that there is sufficient flow to attract salmon. Therefore, Oyak Creek is an unlikely bypass of the Kanektok sonar site.

Stream: SALMON RIVER Drainage: KUSKORWIM BAY Latitude: 385143N Longitude: 1614556W

07/28/87	Qua	lity;	0.75	Rating:	2							
Seq	Method	Obs A	sency S	pawn Stg	Wind	Weather	Water			ottom	Sum Angle	Distance
170	3		ADFG	2	2	2	2		2	2	1	1
		Live	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinoo	k Chinook	Redd	Chun	Chus	Pink	Pink	Sockeye	Sockeye	Coho	Coho
_	101		D 0	0	500	0	0	0	Ó	0	200	0
	102	(	b 0	0	0	0	0	0	0	0	0	6
	103	(	) O	0	0	0	0	0	0	0	0	0
	104	(	D 0	0	0	0	0	0	0	0	0	0
	105	•	0	0	0	0	0	6	0	0	0	0
_	TOTAL	,	D		500	<del> </del>	. 0		0		200	
	q											

08/04	/81	Qua	lity:	1.2	5	Rating:	2							
-	8 <b>4</b> q	Method	0bs	Agency	Sp	ewn Stg	Wind	Weather	Water	Water		Bottom	Sun Angle	Distance
	50	11	DE	ADFG		0	0	0	0		0	0	0	0
		INDEX	Li. Chin		Dead hinook	Chinook Radd	Live Chum	Deed Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
	_	101	2:	153	0	0	0	0	0	0		0	0	0
		102		6	0	0	0	0	G	0	. 0	a	0	0
		103		0	0	0	0	0	0	0	C	• 0	Ġ	0
		104		0	0	0	0	0	0	0	0	. 0	0	0
		105		0	0	0	0	o	0	0	0	0	0	0
	_	TOTAL	2:	153	· · · · · · · · · · · · · · · · · · ·		0		0		0	)	0	

TOTAL SEASON ESCAPEMENT ESTIMATE FOR SALMON RIVER WEIRED AND UNWEIRED PORTIONS USING WEIR COUNTS IN CONJUNCTION WITH ABRIAL SURVEY PROPORTIONS.

07/30/82	Que	lity:	1.25	Rating:	2	•	•					
Seq	Method	Oba A	gency	Spawn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
51	11	DS	ADFG	0	0	0	0		0	0	0	0
	INDEX	Live Chinco				Dead Chun	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
<del></del>	101	61	2	0	0 0	0	0	0		) 0	0	0
	102		0	0	0 0	0 '	O	0	•	•	٥	0
	103		0	0	0 0	. 0	o	0		• 0	٥	0
	104		C	0	0 0	0	a	0	•	0	0	0
	105		0	0	0 0	0	a	0	C	0	. 0	0
_	TOTAL	61	2		0		0			<u> </u>	0	

TOTAL SEASON ESCAPEMENT ESTIMATE FOR SAMON RIVER WEIRED AND UNWEIRED PORTIONS USING WEIR COUNT IN CONJUNCTION WITH AERIAL SURVEY PROPORTIONS.

	Seq	Method	Obs	Agency	Sp.	ıva Stş	Wind	Weather	Water	Water	Vis.	Bottom	Sun Angle	Distance
	48	6	DS	ADFG		3	1	4	1		. <u>.</u> 3	2	1	3
		INDEX	Li.	_	Dead hinook	Chinook Redd	Live Chum	Dead Chum	Live Pink.	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
	-	101		12	2	4	100	50	O	0			0	0
		102		0	0	0	0	- O	0	0	0	. 0	0	0
		103		0	0	0	0	0	0	0	0	• 0	0	0
		104		0	0	0	0	G ·	ø	0	0	. 0	. 0	0
		105		0	0	0	. 0	0	0	0	0	• •	0	0
	_	TOTAL		12	<del></del>		100		Ò			· ·	0	
/05/	/84		OUD CO	VER DID		Rating:	LIGHT TO S	URVRY, SO T	ERMINATED A	APTER THE	RE MILES	FROM THE	MOUTE.	
	/84 Seq			0. Agency	.7	Rating:	3 Wind	Weather	Water	Water	· Vis.	Bottom	Sun Angle	Distance
		Qua	lity:	0.	.7	Ratings	3	······································		Water	· Vis.			Distance
	Seq	Qua Hethod	lity: Obs	Agency ADFG	.7	Rating:	S Wind	Weather	Water	Water	· Vis.	Bottom 2 Dead	Sun Angle	***
	Seq	Qua Hethod  6	lity: Obs  KF	Agency ADFG	7 Sp.	Rating:  awn Stg  3 Chinook	3 Wind  1 Live	Weather 4 Dead	Water  1 Live	Water  Dead	: Vis.	Bottom 2 Dead Sockeys	Sun Angle	1 Dead Coho
	Seq	Qua Hethod 6 IMDEX	lity: Obs  KF	Agency ADFG	7 Sp. Dead Chinook 0	Rating: awn Stg 3 Chinook Redd 5	S Wind 1 Live Chum	Weather 4 Dead Chum 0	Water  1 Live Pink	Water  Dead Pink	Vis. S Live Sockeye	Bottom 2 Dead Sockeye	Sun Angle  1  Live Coho	1 Dead Coho
105/	Seq	Qua Method 6 IMDEX	lity: Obs  KF	Agency ADFG	7 Sp. Dead Shinook	Rating:  awn Stg  3 Chinook Redd	Wind  1  Live Chum	Weather 4 Dead Chum	Water 1 Live Pink	Water Dead Pink	Vis. S Live Sockeye	Bottom  2  Dead Sockeye  0 0	Sun Angle  1 Live Coho 0 0	Dead Coho
	Seq	Qua Hethod 6 IMDEX 101 102 103 104	lity: Obs  KF	Agency ADFG	Pead Chinook	Rating:  awn Stg  3 Chinook Redd  5 0 0	S Wind 1 Live Chum 0 0	Weather 4 Dead Chum 0 0 0	Water 1 Live Pink 0 0	Dead Pink	Vis. S Live Sockeye	Bottom  2  Dead Sockeye  0 0 0	Sun Angle  1 Live Coho 0 0	Dead Coho
	Seq	Qua Method 6 IMDEX 101 102 103	lity: Obs  KF	Agency ADFG ve ook C	7 Pead Shinook 0 0	Rating: awn Stg 3 Chinook Redd 5 0	S Wind 1 Live Chum	Weather 4 Dead Chum 0 0	Water 1 Live Pink 0 0	Dead Pink	Vis. S Live Sockeye	Bottom  2  Dead Sockeye  0 0 0	Sun Angle  1 Live Coho 0 0 0	Dead Coho

	Qui	ility:	0.95	Rating:	1							
Seq	Method		ency	Spawn Stg	Wind	Weather	Water	Wate	r Vis.	Bottom	Sun Angle	Distance
105	5 6	DS .	NDFG	2	1	1	1		1	2	1	30
	INDEX	Live Chinoo	Dea Chino		Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101	28:	<u> </u>	0 90	240	0	9	0				
	102	5-	1	0 19	•	0	0	٥	0	0	0	ā
	103	1	)	0 (	0	0	0	0	0	0	a	ō
	104		)	0 (	_	9	0	0	0	0	0	0
	105	1	ŀ	0 (	0	0	0	0	0	0	0	0
-	TOTAL	330			240				0			<del></del>
/27/87		EGAH AT (	1.	EEK CONFLUE	HCE. ELAPSI	ED TIME 23 M	INUTES.	<u> </u>				
/27/87 8eq		lity: Obs A	1,		<u> </u>	Weather	Water		r Via. 1	Batton	Sun Angle	Distance
Seq	Qua	lity: Obs Ag	1.	Rating: Spawn Stg	1 Wind	Weather			,	Bottom  1	Sun Angle	Distance
Seq	Qua	lity: Obs Ag	1. ency  DFG	Rating: Spawn Stg 2 Chinsok	Wind	Weather .	Water					
Seq	Qua Method 6 INDEX	Ds A	1. ency DFG Dead Chinoc	Rating: Spawn Stg 2 Chinsok	Wind  1  Live Chum	Weather 1	Water 1	Dead	1 Live	1 Dead	l Live	35 Dead
Seq	Qua Method 6 INDEX	Dba Ag  DB Ag  Live Chineol  455	1. ency DFG Dead Chinoc	Rating: Spawn Stg 2 Chinsok k Redd	Wind  Live Chum	Weather  1 Dead Chum	Water 1 Live Pink	Dead Pink	1 Live Sockeye	1 Dead Sockeye	l Live Coho	35 Dead Coho
Seq	Qua Method : 6 INDEX 101 102 103	Dba Ag  DB Ag  Live Chineol  456	1. ency DFG Dead Chinoc	Rating: Spawn Stg 2 Chinsok Redd	1 Wind 1 Live Chum 2075	Weather  1 Dead Chum	Hater 1 Live Pink	Dead Pink	1 Live Sockeye	1 Dead Sockeye	1 Live Coho	35 Dead Goho
Seq	Qua Method : 6 INDEX 101 102 103 104	Dba Ag  DB Ag  Live Chineol  459	1. ency DFG Dead Chinoc	Rating: Spawn Stg  Chinnok Redd  76 0 18	1 Live Chum 2075 15 0	Weather  1 Dead Chum	Water 1 Live Pink 0	Dead Pink 0	Live Sockeye	1 Dead Sookeye	Live Coho	35 Dead Goho
Seq	Qua Method : 6 INDEX 101 102 103	Dba Ag  DB Ag  Live Chineol  456	1. ency DFG Dead Chinoc	Rating: Spawn Stg  Chinnok Redd  76	1 Live Chum 2075 15 0	Weather 1 Dead Chum 0 0	Water 1 Live Pink 0 0	Dead Pink 0 0	Live Sockeye	Dead Sookeye	Live Coho	35 Dead Coho  0 C
Seq	Qua Method : 6 INDEX 101 102 103 104	Dba Ag  DB Ag  Live Chineol  459	1. ency  DFG Dead Chinoc	Rating: Spawn Stg  Chinnok Redd  76 0 18	1 Live Chum 2075 15 0	Weather  1 Dead Chum  0 0 0	Water 1 Live Pink 0 0 0	Dead Pink	Live Sockeye	Dead Sookeye	Live Coho	35 Dead Goho  0 0 0

Stream: SALMON RIVER/ANIAK RIVER Drainage: KUSKOKWIM RIVER Latitude: 610400M Longitude: 1591100W

//18/88	Qua	lity:	0.85	Ratings	. 2	•						
Seq	Method	Obs Aga	ncy Sp	awn Stg	Wind	Weather	Water	Water		Bottom	Sun Angle	Distance
200	6	DS AD	FG	1	2	2	1		1	2	1	25
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sookeye	Live Coho	Dead Coho
-	101	184	0	0	310	0	0	0	0	0	0	0
	102	. 60	0	Ð	0	0 -	0	Q	0	0	0	0
	103	0	0	0	Ò	0	0	0	0	0	0	Ð
	104	0	0	Ð	0	. 0	٥	Û	0	0	G	0.
	105	0	a	Đ	0	0	0	0	0	0	0	0
_	TOTAL	244			310		0		0		0	

Drainage: MIDDLE FORK/BIG RIVER

Latitude: 625330N Longitude: 1543420W

7/23/84	Que	lity:	0.8	Rating:	2							
Seq	Method	-	ncy Sp	nawn Stg	Wind	Westher	Water		r Vis.	Bottom	Sun Angle	Distance
49	6		PG	2	2	2	1	-	2	2	1	40
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeys	Live Coho	Dead Coho
_	101	32	0	0	0	0	0	٥	0	0	0	0
	102	43	0	0	O	0	0	Q.	0	0	0	o
	103	3	0	0	0	0	0	G	0	0	0	0
	104	494	5	0	0	0	0	0	0	0	0	O
	105	0	O	0	Q	0	D	0	0	0	0	0
_	TOTAL	572		<u> </u>	0		0		0		0	
	SURVEYED EXACT EN	DING POINT	S FOR EACH	FORK.		COUNTS. DU	E TO A LACE	COP LAM	OMARES IT	IS NOT PO	SSIBLE TO D	ESCRIBE
07/26/85	SURVEYED EXACT EN	DING POINT	0.85	Rating:	2	·						<del></del>
	SURVEYED EXACT EN	DING POINT Lity: Obs Age	0.85	FORK.		COUNTS. DU	Water		r Vis.	IS NOT PO	Sun Angle	Distance
07/26/85	SURVEYED EXACT EN	DING POINT	0.85	Rating:	2 Wind	Weather	Water	Water	r Vis.	Bottom	Sum Angle	Distance
97/26/85 Seq	SURVEYED EXACT EN	DING POINT	0.85	Rating:	2 Wind	Weather	Water	Water	r Vis.	Botton 	Sun Angle	Distance
97/26/85 Seq	SURVEYED EXACT EN	DING POINT  lity:  Obs Age  DS AD	0.85	Rating:	2 Wind  1	Weather2	Water  2	Water	: Vis.	Bottom 1 Dead	Sun Angle	Distance  40
97/26/85 Seq	SURVEYED EXACT EN  Qua  Method  6  INDEX	DING POINT  lity:  Obs Age   DS AD	0.85 may Sp	Rating:	2 Wind  1 Live	Weather 2 Dead	Water2	Water  Dend	r Vis.	Bottom 1 Dead Sockeye	Sun Angle	Distance  40 Dead
97/26/85 Seq	Qua Method 6 INDEX	DING POINT  lity:  Obs Age  DS AD  Live  Chinook	0.85 may Sp FG Dead Chinook	Rating:	Wind  1  Live Chust	Weather 2 Dead Chum	Water 2 Live Pink	Water Dead Pink	r Vis. 2 Live Sockeye	Bottom  1  Dead Sockeye	Sun Angle  1 Live Coho	Distance  40 Dead Coho
99	Qua Method 6 INDEX	DING POINT  lity:  Obs Age  DS AD  Live Chinook	0.85 may Sp FG Dead Chinook	Rating:  Rating:  2 Chinook Redd  0 0	2 Wind 1 Live Chus	Weather 2 Dead Chum	Water 2 Live Pink	Water Dead Pink	Live Sockeye	Bottom  1  Dead Sockeye	Sun Angle  1 Live Coho	Distance  40 Dead Coho
99	Qua Method 6 INDEX	DING POINT  lity:  Obs Age  DS AD  Live Chinook  5 15 4 601	O.85  noy Sp  PG  Dead Chinook	Rating:  Rating:  awn Stg  Chinook Redd  0 0 0	Wind  1 Live Chuss 0 0 0	Weather  2  Dead Chum	Water 2 Live Pink 0	Dend Pink	Live Sockeye	Bottom  1  Dead Sockeye  0 0 0	Sun Angle  1 Live Coho	Distance 
99	Qua Method 6 INDEX	DING POINT  lity:  Obs Age  DS AD  Live Chinook	0.85 may Sp FG Dead Chinook	Rating:  Rating:  2 Chinook Redd  0 0	Wind  1 Live Chum	Weather  2  Dead Chum	Water	Dend Pink	Live Sockeye	Bottom  1  Dead Sockeye  0 0	Sun Angle  1 Live Coho 0 0	Distance 40 Dead Coho

Latitude: 625330N Longitude: 1543420W

Drainage: MIDDLE FORK/BIG RIVER

Stream: SALMON RIVER/PITKA FORK

07/26/87	Qua	lity:	0.6	5	Ratings	3							
Seq	Hethod	Obs	Agency	Sp	avn Stg	Wind	Weather	Water		r Vla.	Bottom	Sum Angle	Distanc
173	6	D8	ADFG		1	1	3	3		3	2	1	52
	INDEX	Li: China		Dead hinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101		0	0	17		0	0	0	0	0	0	-
	102	:	268	0	4	0	0	0	0	٥	0	Q	0
	103		24	٥	23	٥	0	0	0	0	0	0	(
	104	:	182	2	0	0	0	0	0	. 0	D	0	
	105		0	0	0	0	0	0	0	0	0	0	C
_	TOTAL		474			<u> </u>		0			1		<del></del>

Highest water level in ten years during chinook spawning. Counts only obtained in upper two-thirds of each index area. 70 percent cloud cover decreased water visibility considerably. C-172RG.

07/25/88	Qua	lity:	0.75	Rat	ting:	2 .							
Seq	Hethod	Obs 4	igency	Spawn	Sts	Wind	Weather	Water	Water	r Vis.	Bottom	Sun Angle	Distance
					•						B		
211	6	DE	ADFG	:	2	2	3	1		2	2	1	44
		Live	Dea	d CI	hinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinoc	k Chino	ok	Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Coho	Coho
	101		18	0	0	0	0	0	0		. 0	0	0
	102	3	12	1	Ó	0	0	0	0	-0	0	0	0
	103	3	9	0	0	0	0	0	0	6		0	0
	104	40	12	0	0	0	D	0	0	0	. 0	0	0
	105		0	0	0	0	0	0	0	0		0	o
-	TOTAL	50	01	•••		•		0		e		0	

7/28/87	Qua	lity:	0.75	Rating	2				•			
Seq	Method	· · ·	_	pawn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
174	3		DFG	2	2	2	2	-	2	2	1	3
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead' Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Cobo	Dead Coho
-	101	2	0	0	6	0	0	0	0	0	0	0
	102 103	0	0	0	0	0	0	0	0		0	0
	104	9	0	٥	0	0	0	0	0	0	0	0
	105	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	2		·	6		0		0		0	
	0			•								

Latitude: 605900N Longitude: 1600100W

7/24/84	Qua	lity:	1	1.	Rating:	1		•					
5 <b>e</b> q	Hethod		Agency	y Sp	awa Stg	Wind	Weather	Water		c <b>V1s.</b> 1	Bottom	Sun Angle	Distance
52	9	K.S	ADFG		2	1	. 1	1	<del></del> -	1	1	1	1
	INDEX	Liv Chine	_	Dead Zhinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101		4	0	1	a	G	0	0	0	0	O	0
•	102		0	0	Q.	0	0	0	0	0	0	• •	Ó
	103		0	6	0	0	a	0	0	0	0	<del>-</del>	0
	104		0	0	0	0	0	0	0	. 0	0	-	0
	105		0	0	a	O	G	0 -	O	. 0	0	0	0
_	TOTAL	· · · · · ·	4			0		0		0		0	·
0/14/85		VEYED I	ROH I		Rating:	WER DITCE.				_=			
Seq	Qua Method	lity: Obs	0.:	55	Rating:	S Wind	Weather	Water			Sotton	Sun Angle	Distance
	Qua	lity:	0,:	55	Ratings	3	Weather	Water	Water		Sottom	Sun Angle	Distance
Seq	Qua	lity: Obs	0.: Agency ADFG	55	Rating:	S Wind		·				2 Live	
Seq	Qua Method 7 INDEX	Obs	0.: Agency ADFG	55 y Sp.	Rating: awn Stg	Wind  2 Live	4 Dead	2 Live	Dead	3 Live	3 Dead Sockeye	2 Live Goho	12 Dead Coho
Seq	Qua Method 7 INDEX	Obs	Agency ADFG	Dead Chinook	Rating: awn Stg  3 Chinook Redd	Wind 2 Live Chum	Dead Chum O	Live Pink	Dead Fink 0	Live Sockeye	3 Dead Sockeye	2 Live Goho	12 Dead Coho
Seq	Qua Method 7 INDEX	Obs	Agency ADFG	55 y Sp. Dead Chinook	Rating: awn Stg 3 Chinook Redd	Wind 2 Live Chum	Dead Chum O O	Live Pink	Dead Pink	Live Sockeye	3 Dead Sockeye	Live Goho	12 Dead Coho
Seq	Qua Method  7 INDEX 101 102 103 104	Obs	Agency ADFG ADFG O	Dead Chinook	Rating: awn Stg  Chinook Redd  0 0 0	Wind  2  Live Chum	Dead Chum O O	Live Pink	Dead Pink	Live Sockeye	3 Dead Sockeye	Live Goho	12 Dead Coho  1 0 0
Seq	Qua Method  7 INDEX 101 102 103	Obs	Agency ADFG	Dead Chinook	Rating: awn Stg  3 Chinook Redd  0 0	Wind 2 Live Chum	Dead Chum O O	Live Pink	Dead Pink	Live Sockeye	3 Dead Sockeye	Live Goho	12 Dead Coho
Seq	Qua Method  7 INDEX 101 102 103 104	Obs	Agency ADFG ADFG O	Dead Chinook	Rating: awn Stg  Chinook Redd  0 0 0	Wind  2  Live Chum	Dead Chum O O	Live Pink	Dead Pink	Live Sockeye	3 Dead Sockeye	Live Goho	12 Dead Coho  1 0 0

Drainage: AROLIK RIVER Latitude: 593000N Longitude: 1612000W

09/04/84	, Qua	lity:	1.	Ratings	1							
Seq	Method	Obs Age	ncy Sp	awn Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
53	1	KF AI	)FG	2	1	1	1		1	1	1	10
		Live	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chinook	Chinook	Redd	Chum	Chum	Pink	Pink	Sockeye	Sockeye	Cobo	Coho
_	101	0	0	٥	0	0	0	0	G	0	200	0
	182	0	D	0	0	0	0	0	0	0	0	0
	103	Ð	Ð	G	0	0	0	0	0	0	0	0
	104	G	0	0	0	0	0	0	0	0	O	0
	105	0	0	0	0.	0	0	0	0	0	0	0
-	TOTAL	0			0	***************************************	0		0		200	

SEEN IN CASINO CREEK. COHO SPAWNING TO THE EAST FORK. ALSO SAW PAIR OF COHO IN CRATER CREEK INCLUDED IN 200 TOTAL.

Stream: SOUTH FORK AROLIK RIVER

Latitude: 590730N Longitude: 1612930W

07/27/84	Qua	lity:	0.95	Rating:	1							
Seq	Nethod	Obs A		Spawn Stg	Wind	Weather	Water			Bottom	Sum Angle	Distance
54	6	r.	ADFG	2	1	2	1	-	1	1	2	10
	INDEX	Live Chinoc			Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockey	Dead Sockeye	Live Coho	Dead Cobo
_	101	1	2	5 0	2450	0	0	0		0	175	0
	102		0	0	0	0	o	0	(	0	0	0
	103		0	0 0	0	0	0	0		0	0	0
	104		0	D 0	. 0	.0	Đ	0	•	0	Đ	0
	105		o .	0 0	0	0	0	0	•	) 0	0	,0
_	TOTAL	1	2		2450		0	-		)	. 175	

Drainage: GOODNEWS RIVER

7/26/87	Qua	ility:	0.75	Rating	3							
Seq	Method		enc <b>y</b> Šp	awn Stg	Wind	Weather	Water	Water		ottom	Sun Angle	Distance
175	3	KF A	DFG	1	1	1	3		3	2	1	12
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Pead Coho
	101	38	2	0	680	0	0	0	0	0	0	0
	102	. a	0	0	0	0	0	0	6	0	0	0
	103	0	0	0	0	0	0	0	0	0	D	a
	104	a	D	0	0	•	0	0	0	0	0	0
	105	O	0	0	0	0	0	a	O	0	0	0
_	TOTAL	38			680		0		0		0	
	0			,						•		

7/25/87	Qua	lity	0.75	1	Rating:	3							
Seq	Method	Oba A	Igency	Spe	wn Stg	Wind	Weather	Water			iottom	Sun Angle	Distance
176	6	DS .	ADPG	,	0	2	2	4	-	2	0	1	70
	INDEX	Live Chinoc		ad ook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101		0	0	0	0	0		0	Ó	0	0	0
	102		0	0	0	0	0	0	0	0	0	O	0
	103		0	0	0	0	8	0	0	0	0	O	0
	104 105		0	0	0	0	0	0	0	0	0	0	0
_	TOTAL		0			Û	<del></del>	0		0		0	

Latitude: 615510N Longitude: 1561430W

Stream: TATLAWIKSUK RIVER Drainage: KUSKOKWIM RIVER

07/26/87	Qua	lity:	0.65	3	Rating:	3				•			
Beq	Method	Obs	Agency	Spe	wn Stg	Wind	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
139	6	DS	ADFG		0	2	1	4		2	3	1	3
	INDEX	Liv Chino		Dead Inook	Chinook Redd	Live	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Desd Sockeye	Live Coho	Dead Coho
	101		0	0	0	0		0	0		<b>)</b> 0	0	0
	102		0	Ð	0	0 .	Ð	0	0		• •	٥	0
	103		D	9	0	0	0	0	0		} 0	0	0
	104		0	0	0	0	0	0	0			0	0
	105		0	0	0	0	0	0	0	•	0	e	0
_	TOTAL		0			0		0			)	0	

Too stained and turbid for survey. Surveyed five miles in upper walley. North tributary about five miles from mouth is in similar condition.

Drainage: TELAQUANA RIVER/STONY R.

SURVEY BEGAN 5 MILES DOWNSTREAM FROM LAKE AND INCLUDED ENTIRE LAKESHORE.

Stream: TELAQUAMA LAKE

7/27/85	Qua	lity:	0.9	Rating:	2							
Seq	Hethod	_	ncy	Spawn Stg	Wind	Weather	Water		r Vis.	Bottom	Sum Angle	Distance
90	6		)FG	2	1	1	2	_	2	1	1	30
	INDEX	Live Chinook	Dead Chinoo		Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101	0		0 0	0	0	O.	0	15426	, D	0	0
	102	D		0 0	0	D	0	0	0	. 0	0	O
	103	0		0 <b>G</b>	0	0	0	0	0		Q	0
	104	6		0 0	0	G	0	0	0	9	0	0
	105	0		0 0	0	O	0	0	0	0	0	0
-	TOTAL	0			0		0		15426		0	

Latitude: 605700N Longitude: 1535200W

/31/85	Qua	lity	0.4	8	Rating:	2							
Seq	Kethod	Obs	Agency	Sp	awn Stg	Wind	Weather	Water	Water		Bottom	Sun Angle	Distance
98	6	DS	ADFG		3	3	1	2.	-	2	1	1	5
	INDEX	Li	•	Dead hinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sookeye	Live Cohe	Dead Cobo
-	101		0	0	0	0	0	0	0	50	0	0	0
	102		0	0	0	0	0	0	0	0	0	0	0
	103		0	0	0	G	0	0	0	0	. 0	0	0
	104		0	0	D	0	0	0	0	Đ	0	0	0
	105		0	0	0	0	0	Q	0	0	0		0
-	TOTAL		0			0		D		50	-	0	
	0												
07/31/85		ılity:	0.	7	Rating:	2	·						
<b>Se</b> q		Oba	Agency		avn Stg	Wind	Weather	Vater			Bottom	Sun Angle	Distance
	Que				•	_	Weather	Water  2	Water		Bottom  2	Sun Angle	Distance
5eq 	Que	Obs	Agency  ADFG		evn Stg	Wind 					2 Dead	1 Live	
5eq 	Qua Method	Obs KS	Agency  ADFG	Sp Dead	avn Stg  2 Chinook	Wind  2 Live	3 Dead	2 Live	Dead	2 Live	2 Dead Sockeye	1 Live Coho	2 Dead
5eq 	Qua Method 6	Obs KS	Agency ADFG ve	Sp Dead hinook	2 Chinook Redd	Wind  2 Live Chus	3 Dead Chum	2 Live Pink	Dead Pink	2 Live Sockeye	2 Dead Sockeye	1 Live Coho	2 Dead Coho
5eq 	Qua Method 6 INDEX	Obs KS	Agency ADFG ve	Dead hinook	2 Chinook Redd	Wind  2 Live Chus	3 Dead Chus	Live Pink	Dead Pink	Live Sockeye	2 Dead Sockeye	1 Live Coho	2 Dead Coho
5eq 	Qua Method 6 INDEX	Obs KS	Agency ADFG	Dead hinook	2 Chinook Redd	Wind 2 Live Chus	3 Dead Chuss 0	Live Pink	Dead Pink D	Live Sockeye	2 Dead Sockeye	1 Live Coho	2 Dead Coho
5eq 	Qua Method 6 INDEX 101 102 103	Obs KS	Agency ADFG	Dead hinook	2 Chinook Radd	Wind 2 Live Chus	3 Dead Chum	Live Pink	Dead Pink	Live Sockeye	2 Dead Sockeye 0 0	1 Live Coho	2 Dead Coho

7/27/86	Qua	lity:		1.	Rating:	1							
Seq	Method	Obe	Agend	-	awa Sta	Wind	Weather	Water			Bottom	Sun Angle	Distance
107	6	DS .	ADFO		2	1	1	1		1	1	2	3
	INDEX	Li Chin	•	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101		0	0	0	0	0.	0	0	165	0		0
	102		0	0	a	0	a	0	0	0	0	0	o
	103		0	0	0	0	0	0	0	0	0	a	0
	104		0	0	0	Đ	a	0	0	0	0	0	0
	105		0	0	0	0	0	0	0	¢	0	0	0
_	TOTAL		0	-		0	•	0		165		0	
	0												
/26/87	Qua	lity:		1.	Rating:	1							
Seq	Method	0bs	Ageno		ava Stg	Wind	Weather	Water			Bottom	Sun Angle	Distance
168	6	DS	ADFG		0	1	1	1		1	1	1	2
	INDEX	Li. Chin		Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101		0	ō	0	0	0	0	0	0	0	٥	
	102	•	0	0	0	o	0	0	0	0	0	0	G
	103		0	0	0	0	0	0	0	0	0	0	0,
	104		0	D	0	O	0	0	0	0	0	a	0
	105		0	Q.	O	0	Q	0	٥	0	0	0	0
_	TOTAL		0		<del></del>	0		0		0		·	

Stream: TEVYARAQ LAKE Drainage: CHINEEKLUK CREEK/HOLOKUK R. Latitude: 611605N Longitude: 1580143W

7/21	/88	Qua	lityı	0.85		Rating:	2							
	Seq	Method		Agency	Spe	wn Stg	Wind	Weather	Water	Water		Bottom	Sum Angle	Distance
	204	6	DS	ADFG		1	2	2	1	-	1	2	1	4
			Liv	• D	ead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	;	INDEX	Chino	ok Chi	nock	Redd	Chum	Chun	Pink	Piak	Sockeye	Bookeye	Cohe	Coho
	_	101		0	0	0	0	0	Q	0	100	0	0	0
		102		0	0	0	0	0	0	Ð	0	0	0	O
		103		0	0	0	0	0	0	0	0	0	0	0
		104		0	0	0	0	0	0	0	0	0	0	o
		105		0	D	0	0	0	0	0	C	0	0	0
		TOTAL	<del></del>	0		·	0		0		100	1	0	
		Smoke he	se. C-	172RG.										•

Page

7/19/84	Qua	lity:	0.85		Rating:	2							
Seq	Method	Obs	Agency	Spa	wn Stg	Wind	Weather	Water		e Vis.	Bottom	Sun Angle	Distance
56	6	DS	ADFG		1	1	2	1	_	2	2	1	50
	INDEX	Liv Chino	_	nook Jead	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sookeye	Live Coho	Dead Coho
_	101		93	0	0	1625	8	15	0	0	0	0	0
	102		24	0	0	10	a	a	0	0	0	a	0
	103		0	0	D	o	. 0	0	0	0	0	0	8
	104		0	Ď	0	0	0	0	0	0	O	D	0
	105		0	0	0	,0	0	0	0	0	0	0	0
-	TOTAL	1	.7			1635	<del></del>	15		0		a	
7/13/84	<del></del>	EGAH AT	FGG R.		Rating:	SNDED AT BE	AR CREEK.	· · · · · · · · · · · · · · · · · · ·					····
7/13/84 Seq	<del></del>	lity:					Weather	Water	Wate:	r Vie. I	lottom	Sun Angle	Distance
Seq	Qua Method	lity:	0.9		Rating:	1 Wind	Weather		Water	r V10. 1		Sun Angle	
Seq	Qua Method	lity: Obs	0.9 Lgency  ADFG		Rating:	1 Wind	Weather		Wate:				
Seq	Qua Method 6 INDEX	Obs  KF Liv Chino	0.9  Apro  Dik Chi	Spe ead nook	Rating:  Awn Stg  1  Chinook Redd	1 Wind  1 Live Chum	Weather 2 Dead	i Live	Dead	i Live	2 Dead	1 Live	 40 Dead
Seq	Qua Method 6 INDEX	Obs  KF Liv Chino	0.9  ADFG  Dik Chi	Spe ead nook 0	Rating:  Awn Stg  1  Chinook Redd  0 0	1 Wind 1 Live Chum	Weather 2 Dead Chum	1 Live Pink	Dead Pink 0 0	l Live Sockeye	2 Dead Sockeye	1 Live Coho	A0 Dead Coho
Seq	Qua Method 6 INDEX 101 102 103	lity: Obs  KF Liv Chino	0.9  ADFG  Dik Chi	Spa lead nook 0 0	Rating:  Awn Stg  1 Chinook Redd  0 0	1 Wind 1 Live Chum 2838 10	Weather 2 Dead Chum 0 9	1 Live Pink	Dead Pink 0 0	Live Sockeye	2 Dead Sockeye	1 Live Coho	40 Dead Coho
Seq	Qua Method 6 INDEX 101 102 103 104	lity: Obs  KF Liv Chino	0.9 Apro Dik Chi	Spa lead nook 0 0	Rating:  Awn Stg  1 Chinook Redd  0 0 0	1 Wind 1 Live Chum 2838 10 0 0 0	Weather 2 Dead Chum 0 9	1 Live Pink	Dead Pink	Live Sockeye	2 Dead Sockeye	Live Coho	A0 Dead Coho
Seq	Qua Method 6 INDEX 101 102 103	lity: Obs  KF Liv Chino	0.9  ADFG  Dik Chi	Spa lead nook 0 0	Rating:  Awn Stg  1 Chinook Redd  0 0	1 Wind 1 Live Chum 2838 10	Weather 2 Dead Chum 0 9	1 Live Pink	Dead Pink 0 0	Live Sockeye	2 Dead Sockeye	1 Live Coho	A0 Dead Coho 0 0
Seq	Qua Method 6 INDEX 101 102 103 104	lity: Obs  KF Liv Chino	0.9 Apro Dik Chi	Spa lead nook 0 0	Rating:  Awn Stg  1 Chinook Redd  0 0 0	1 Wind 1 Live Chum 2838 10 0 0 0	Weather 2 Dead Chum 0 9	1 Live Pink	Dead Pink	Live Sockeye	2 Dead Sockeye	Live Coho	A0 Dead Coho 0 0

122

Latitude: 610600M Longitude: 1605800W

Drainage: KUSKOKWIM RIVER

Stream: TULUKSAK RIVER

/24/84	Qua	lityı	1.	Rating:	1							
Seq	Nethod	Obs /	gency	Spawn Stg	Wind	Weather	Water	Wates	Vis.	Bottom	Sun Angle	Distance
59	9	ks	ADPG	2	1	1 .	1		1	1	1	5
	INDEX	Live Chinoc			Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101		0	0 0	0	0	0	0	0	0	0	0
	102	2	1	0 7	. 5	0	0	0	8	Đ	0	0
	103		0	0 0	0	0	0	0	0	0	0	0
	104		0	o o	0	0	, o	0	0	0	0	٥
	105		B	0 0	0	0	0	0	0	0	0	0
144 194		DOWNSRI		E CREEK TO		Y 1 MILE BE	O LOW DRY CRI	EK. SEE	SCOTT A		O SURVEYS FOR	SAME DAY.
/24/84	SURVEYED			Rating:		Y 1 HILE BE	-	SEK. SEE	_		SURVEYS FOR	SAME DAY.
/24/84 Seq	SURVEYED	DOWNSRI Lity:	AM OF SLAT		APPROXIMATE!	Y 1 MILE BE	-	Water	SCOTT A		_	SAME DAY.
	Qua	DOWNSRI Lity:	1.	Rating:	APPROKIMATEI 1	Weather	LOW DRY CRI	Water	SCOTT A	ND WEAGLE :	SURVEYS FOR	Distance
8eq	Qua Method	DOWNSRI Lity:	1. sency RGC	Rating: Spawn Stg 2 Chinook	APPROXIMATEI  Wind  1  Live	Weather  1 Dead	Water	Water  Dead	Vis.	Bottom 1	SURVEYS FOR Sun Angle 1 Live	Distance 5
8eq	Qua	DOWNSRI Lity: Oba A	1. sency RGC	Rating: Spawn Stg 2 Chinook	APPROXIMATEI  Wind	Weather	Water	Water	Vis.	Bottom	SURVEYS FOR Sun Angle 1 Live	Distance
8eq	Qua Method	DOWNSRI Lity:	1. sency RGC	Rating: Spawn Stg 2 Chinook	APPROXIMATEI  Wind  1  Live	Weather  1 Dead	Water	Water  Dead	Vis.	Bottom 1	SURVEYS FOR  Sun Angle  1  Live Goho	Distance 5 Dead Coho
8eq	Qua Method 9	DOWNSRI Lity:	1. Leency NGC Deac	Rating: Spawn Stg 2 Chinook k Radd	Vind  Live Chum	Weather  1 Dead Chus	Water  1 Live Pink	Water  Dead Pink	Vis.	Bottom  1  Dead Sockeye	Sun Angle  1 Live Goho	Distance 5 Dead Coho
8eq	Qua Method 9 1MDEX 101 102 103	DOWNSRI Lity: Oba / KW Live Chinoc	1. Leency NGC Deac	Rating: Spawn Stg 2 Chinook Redd	Vind  Live Chuss	Weather  1  Dead Chus	Water  1 Live Pink  0 0	Water  Dead Pink	Vis.	Bottom  1  Dead Sockeye  0	Sun Angle  1 Live Goho 0	Distance 5 Dead Coho
8eq	Qua Method 9 1MDEX 101 102 103 104	DOWNSRI Lity: Oba / KW Live Chinoc	1.  Quency  NGC  Deac ok Chino	Rating:  Spawn Stg  2  Chinook k Redd  0 0 0 0 0 0 0	Vind  Live Chuss	Weather  1 Dead Chum	Water  1 Live Pink  0 0	Water  Dead Pink 0	Vis.  Live Sockeye	Bottom  1  Dead Sockeye  0 0	Sun Angle  1 Live Goho	Distance 5 Dead Coho 0 0 0
8eq	Qua Method 9 1MDEX 101 102 103	DOWNSRI Lity: Oba / KW Live Chinoc	1.  gency  NGC  Deac  k Chino	Rating: Spawn Stg  2 Chinook k Redd 0 0 0	Vind  Live Chuss	Weather  1 Dead Chum	Water  1 Live Pink  0 0	Water  Dead Pink 0	Vis.  1 Live Sockeye 0	Bottom  1  Dead Sockeye  0	Sun Angle  1 Live Goho	Distance 5 Dead Coho

Latitude: 610600N Longitude: 1605800W

	Method	-	-	avn Stg	Wind	Weather	Water.	Wate	r Vis.	ottom	Sum Angle	Distance
57	9	MS BL	н	2	1	1	11	-	1	1	1	 6
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sookeye	Dead Sockeye	Live Coho	Dead Coho
_	101	0	0	0	0	0	0	0	0	0	0	0
	102	57	0	0	0	0	0	0	0	0	0	0
	103	0	0	0	0	a	0	0	. 0	0	0	0
	104	0	0	0	0	0	0	0	0	0	Đ	0
	105	0	0	0	0	0	0	0	0	٥	0	Đ
	TOTAL	57	"		0	<del>-                                    </del>	Ó		Ð	· ·	0	
242-125					<del></del>							
Seq	Que Method	lity: Obs Age	-	Rating:	1 Wind	Weather	Water			otton	Sum Angle	Distance
	Method		ncy Sp.	_		Weather .	Water 1	Wate:		otton	Sım Angle  1	Distance 5
5eq	Method	Obs Age	ncy Sp.	awn Stg	Wind							***
5eq	Method  9	Obs Age	nay Sp. C Dead	awn Stg  2 Chinook	Wind 1 Live	1 Dead	l Live	Dead	1 Live	1 Dead	1 Live	5 Dead
8eq	Hethod  9 INDEK	Obs Age RH NG Live Chinock	ney Sp.	awn Stg  2 Ghinook Redd	Wind 1 Live Chum	1 Dead Chum	l Live Pink	Dead Pink	l Live Sockeye	1 Dead Sockeye	1 Live Coho	5 Dead Coho
	Hethod 9 INDEK	Obs Age RH NG Live Chinook	Dend Chinook	awn Stg  2 Chinook Redd	Wind  1  Live Chum	1 Dead Chum	1 Live Pink	Dead Pink	1 Live Sockeye	1 Dead Sockeye	1 Live Cohe	5 Dead Coho
Seq	Mathod  9 IHDEK	Obs Age RH NG Live Chinook	Dend Chinook	awn Stg 2 Chinook Redd 0	Wind  1  Live Chum	Dead Chum	live Pink	Dend Pink 0	Live Sockeye	1 Dead Sockeye	1 Live Cohe	5 Dead Coho
Seq	Mathod 9 INDEK  101 102 103	Obs Age RH NG Live Chinook	Dend Chinook	chinook Redd	Vind  1 Live Chum  0 0	Dead Chum	live Pink	Dead Pink	Live Sockeye	Dead Sockaye	1 Live Cohe	5 Dead Coho 0 0

Drainage: KUSKOKWIM RIVER

Latitude: 610600N Longitude: 1605800W

	Qua	lity	0.9		Rating:	1							
Beq	Method		ency	Sp.	wn Stg	Wind	Weather	Water	Water		ottom	Sun Angle	Distance
91	6		NDFG		2	1	1	2	-	1	2	1	45
	INDEX	Live Chinoo		aad nook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Li <del>ve</del> Coho	Dead Coho
-	101	13		0	0	3092	116	0	0	0	0	0	0
	102		7	0	0	90	Ð	0	0	0	0	0	Q
	103		)	0	0	0	O	0	0	0	0	0	0
	104 105		)	0	0	0	0 0	0	0	0	0	0	0
-	TOTAL	14	······			3182		0		D	<del> </del>	0	
/14/85		lity:	0.5		M. SURVE	3		JED J RI. A			as Lubach .		
8eq	Qua Method	lity: Obs A	0.5 gency		Rating:		Weather	Water			ottom	Sun Angle	Distance
_	Qua Method	lity: Obs A	0.5		Rating:	3 Wind						Sun Angle	
Seq	Qua Method	lity: Obs A	0.5 sency ADFG	Spa	Rating:	3 Wind		Water		· Via. B	ottom	Sun Angle 4 Live Coho	
Seq	Qua Method 7 INDEX	Obs A	0.5 sency  aDFG Dec Chir	Spa and nook	Rating:  WH Stg  3 Chinook Redd	3 Wind 4 Live Chum	Weather 4 Dead Chum	Water 2	Water  Dead	Vis. B	ottom 2 Dead	4 Live	10 Dead
8eq	Qua Method 7 INDEX 101 102	Obs A	0.5 sency DFG Dec Chir	Spanad nook	Rating:  Stg  Ghinook Redd  0	Wind  A  Live Chum	Weather 4 Dead Chum 0	Water 2 Live Pink 0	Vater Dead Pink 0	Vis. B 3 Live Sockeye	ottom  2 Dead Sockeye	Live Coho	10 Dead Coho
8eq	Qua Method  7 INDEX 101 102 103	Obs A	0.5 sency DFG Dec Chir	Spanad nook	Rating:  See Stg  Chinook Redd  0 0	Wind  A  Live Chum	Weather 4 Dead Chum 0 0	Water 2 Live Pink 0 0	Dead Pink	Via. B  Live Sockeye	ottom 2 Dead Sockeye	Live Cohe	10 Dead Coho
8eq	Qua Method  7 INDEX 101 102 103 104	Obs A	0.5 sency DFG Dec Chir	Spanad nook	Rating:  Stg  Chinook Redd  0 0 0	Wind  A  Live Chum	Weather 4 Dead Chum 0 0 0	Water 2 Live Pink 0 0 0	Dead Pink	Via. B Live Sockeye	ottom 2 Dead Sockeye 0 0	Live Coho	10 Dead Coho
8eq	Qua Method  7 INDEX 101 102 103	Obs A	0.5 sency DFG Dec Chir	Spanad nook	Rating:  See Stg  Chinook Redd  0 0	Wind  A  Live Chum	Weather 4 Dead Chum 0 0	Water 2 Live Pink 0 0	Dead Pink	Via. B  Live Sockeye	ottom 2 Dead Sockeye	Live Cohe	10 Dead Coho
	Qua Method  7 INDEX 101 102 103 104	Obs A	0.5 sency DFG Dec Chir	Spanad nook	Rating:  Stg  Chinook Redd  0 0 0	Wind  A  Live Chum	Weather 4 Dead Chum 0 0 0	Water 2 Live Pink 0 0 0	Dead Pink	Via. B Live Sockeye	ottom 2 Dead Sockeye 0 0	Live Coho	10 Dead Coho

07/07/86	Qua	lity:	1.		Rating:	1							
Seq	Method	Obs 4	Agency	Sp	wn Stg	Wind	Weather	Water	Wate	e Vis.   1	Bottom	Sun Angle	Distance
118	2	DW	TDCO		1	1	1	1		1	1	1	24
	INDEK	Live		had nook	Chinook Redd	Live Chum	Deed Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101		0	C	a	0	. 0	0	G	0	0	0	
	102		0	0	0	0	a	0	0	0	0	0	a
	103		0	0	0	0	٥	0	0	0	0	0	G
	104		0	0	0	0	0	. 0	0	0	0	0	0
	105		0	0	0	G	0	0	0	0	0	0	a
_	TOTAL		0			0		0					<del></del>

DW - DOUGLAS WEIR: CONSULTANT FOR MORTHLAND GOLD CORPORATION. HE HAS WORKED IN CONJUNCTION WITH THE DEPARTMENT SINCE 1983 AND HIS SURVEY TECHNIQUE IS THE SAME AS THAT USED FOR DEPARTMENT SURVEYS OF THE TULUKSAK.

07/09/86	Qua	lity:	1.	i	Rating:	1							
Seq	Method	0bs	Agency	Sp	awn Stg	Wind	Weather	Water	Wate	r Vis.	Bottom	Sun Angle	Distance
119	2	DH	TDCO		1	1	1		-	1			24
	-				-	•	. •	•		•	•	•	29
		Liv		Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chino	ok Ci	inook	Redd	Chan	Chum	Pink	Pink	Sockeye	Sockeys	Coho	Coho
_	101		0	0	0	0	Ð	0	0		Ò		
	102		0	0	0	o	Đ	0	Ð	Č	9	ā	0
	103		0	0	0	0	0	0	0	(	) a	0	0
	104		0	0	0	0	· o	0	0		0	0	0
	105		0	0	0	0	0	0	Q	C	0	0	.0
_	TOTAL		0			0		0		(	)	0	

Latitude: 610600M Longitude: 1605800W

Stream: TULUKSAK RIVER

7/28/86	Qua	lity:	0.	,,	Rating:	3		•					
Seq	Method		Ageno	у 5р	awn Stg	Wind	Weather	Water	Water	Vis. I	lottom	Sun Angle	Distance
104	6	DS.	ADFG	}	2	1	1	3		3	2	1	30
	INDEX	Li Chin		Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sookeye	Live Coho	Dead Cobo
-	101		3	0	0	20	0	•	•	0	0	0	0
	102		1	6	0	Đ	9	<b>c</b>	0	0	0	0	0
	103		0	0	0	Đ	0	0	0	0	0	0	0
	104		0	<b>Q</b>	0	0	ο,	O.	0	0	0	0	0
	105		0	0	0	0	0	0	0	0	Q	0	0
-	TOTAL		4	<del></del>		20		0		0		0	
R/02/86						<del></del>	CORVEY ENDED	AT WYAC.	ELAPSED	TIME 23 P	iinutes.		_
1/02/86	Qua	Lity:		75	Rating:	3			<u> </u>	<del></del>			<del></del>
84q 84q	Qua	Litys		75 y 8p		<del></del>	Weather	AT MYAC.	ELAPSED Water	<del></del>	Oction	Sun Angle	Distance
•	Qua Method	lity: Obs	0. Ageno	75 y Sp	Rating:	3 Wind	Westher	Water	Water	<del></del>		Sun Angle	
Seq	Qua Method	lity: Obs	O. Ageno TDCO	75 y Sp	Rating:	3 Wind	Weather	Water	Water	V1a. 1	lotton	1 Live	
Seq	Qua Method	Lity: Obs DW	O. Ageno TDCO	75 y Sp Dead	Rating: awn Stg 2 Chinook	3 Wind 3	Weather 2 Dead	Water  2 Live	Water 	Vis. I	lottom  1 Dead	1 Live Coho	30 Dead
Seq	Qua Method 2 INDEX	Lity: Obs DW	O. Ageno TDCO Ve	75 y Sp Dead Chinook	Rating: awn Stg 2 Chinook Redd	3 Wind 3 Live Chum	Weather 2 Dead Chum	Water  2 Live Pink	Water Dead Pink	Vis. I 2 Live Sockeye	lotton 1 Dead Sockeye	1 Live Coho	30 Dead Coho
Seq	Qua Mathod 2 INDEX 101 102 103	Lity: Obs DW	0. Ageno TDC0	75 y Sp Dead Chinook	Rating: awn Stg 2 Chinook Redd	3 Wind 3 Live Chum	Weather 2 Dead Chum	Water 2 Live Pink	Water Dead Pink	Vis. I 2 Live Sockeye	Dead Sookeye	1 Live Coho	30 Dead Coho
Seq	Qua Mathod 2 INDEX 101 102 103 104	Lity: Obs DW	O. Ageno TDC0	75  Dead Chinook  1 0 0	Rating: awn Stg 2 Chinook Redd 0	S Wind 3 Live Chum 0 0	Weather 2 Dead Chum	Water 2 Live Pink 0 0	Water Dead Pink 0	Vis. I 2 Live Sockeye 0 0	Dead Fockeys 0 0	1 Live Coho	30 Dead Coho
Seq	Qua Mathod 2 INDEX 101 102 103	Lity: Obs DW	O. Ageno TDC0 Ve cok	75  Dead Chinook	Rating: awn Stg 2 Chinook Redd 0 0	3 Wind 3 Live Chum 0 0	Weather 2 Dead Chum	Water 2 Live Pink 0 0	Dead Pink	Vis. I 2 Live Sockeye 0 0	Dead Sockeys 0	1 Live Coho	30 Dead Coho

08/03/86	Qua	lity:	0.8	3	Rating	2							
Seq	Method	Oba	Agency	Sp	awn Stg	Wind	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
122	8	DW	TDCO		2	1	3	2		2	1	1	a
	INDEX	Liv		Dead inook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Desd Pink	Live Sockeye	Dead Sookeye	Live Coho	Dead Coho
_	101		0	0	0	0	0	0	0		0	0	0
	102		4	1	0	0	. 0	0	0	0	) a	0	0
	103		0	0	0	D	0	0	0	0		0	0
	104		0	G	Đ	0	0 '	0	0	6	) D	0	0
	105	•	0	0	0	Q	0	0	0	0	0	0	0
_	TOTAL		4			0		0			<del> </del>	0	

COUNT MADE ON RAFT TRIP FROM DUGOUT CREEK TO FOOTHILLS. BASED ON DW'S FIVE YEARS OF WORK ON TULUKSAK RIVER, THESE WERE WORST COUNTING CONDITIONS ENCOUNTERED. CHIMOOK POPULATION LESS THAN 50 BASED ON PAST YEARS DISTRIBUTION. NO CHUMS ABOVE THE FOOTHILLS.

	•	lity:	0.75		Rating:	3							
Seq	Kethod	Oba .	Agency	Spa	wn Stg	Wind	Weather	Water		r Via. B	ottom	Sun Angle	Distance
177	3	KF	ADFG		1	1	1	3		3	2	1	36
	INDEX	Liv Chino		ead nook	Chinook Redd	Live Chum	Dead Chun	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
<del></del>	101		60	0	0	258	0	0	0	0	0	0	0
	102		15	٥	O	5	0	0	0	0	0	0	8
	103		7	0	0	a	0	0	0	0	O	0	9
	104		D	0	a	0	0	0	0	0	0	. 0	0
_	105		0	0	0	0	0	0	a	0	0	0	0
	TOTAL,		82			263		0		0		0	

Turbidity prevented survey below Otter Creek, Otter Creek to Mysc was difficult due to green water color obscuring

deeper portions of stream. Water was high due to recent rains. Turbidity appeared to be natural.

Drainage: KUSKOKWIM RIVER Latitude: 610600W Longitude: 1605800W

08/01/87	Qua	lity:	1.	•	Rating:	1							
Seq	Method	Oba .	Agency	Бра	wn Stg	Wind	Weather	Water		r V1=.	Bottom	Sun Angle	Distance
178	9	₽₩	ADFT		2	1	1	1		1	1	1	10
		Liv	•	Dead	Chinook	Live	Dead	Live	Dead	Live	Dead	Live	Dead
	INDEX	Chino	ok Cł	inook	Redd	Chum	Chus	Pink	Pink	Sockeye	Sockeye	Cohe	Coho
_	101		0	0	0	0	0	0	Ó		) D	0	0
	102	1	86	0	0	25	0	0	0	0	0	0	0
	103		0	0	0	a	0	0	q	0	•	0	0
	104		0	0	. 0	0	0	0	0	0	0	0	0
	105		0	0	0	0	0	0	0	C	0	0	0
_	TOTAL		86			25		0		C	)	0	

Stream: TULUKSAK RIVER

This survey was done by Doug Weir who has been the resident naturalist at Myac for the preceeding 10 years or so. He surveyed most of the small tailing streams. The counts were made from 21 Jul through 1 August so there is some chance of double counting.

07/28/88	Qua	lity	0.75	Rating:	2							
Seq	Nethod	-		awn Stg	Wind	Weather	Water				Sun Angle	Distance
212	2 <b>F</b>		DFG	3	. 2	2	2		2	2	1	59
	INDEX	Live Chinool	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
-	101	186	7	97	1445	243	0	a	C	) 0	Ō	0
	102	(	0	0	0	C	0	0	C	6	0	0
	103		0	0	0	٥	0	0	0	•	O	0
	104	(	0	0	0	0	0	0	C	•	0	D
	105	(	0	0	0	G .	a	0	C	) a	0	0
_	TOTAL	186	)		1445		0			)	0	

Slightly past peak of spawning. Survey began about 5 miles north of Myac on Tuluksak area 102, ended 5 miles above Fog River. Water=1 in upper end and 3 near Fog River. USFWS C-185 on floats. Pilot: George Walters. USFWS observer: Ray Jones.

Drainage: NECONS RIVER/STONY R. Latitude: 610730N Longitude: 1534500W

07/27/85	Qua	lity:	0.8	Rating:	3	•			•			
Seq	Method	-	ency	Spawn Stg	Wind	Weather	Water		r Vis.	Bottom	Sun Angle	Distance
88	6	DS A	DFG	1	1	1	3		1	3	1	20
	INDEX	Live Chinook	Dead Chinool		Live Chum	Dead ·	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
_	101	0	)	0 8	0	0	0	•	20	0	0	0
	102	0	1	0 0	0	0	0	0	0	0	0	0
	103	0	) 1	3 O	0	0	0	0	0	0	0	0
	104	0	) (	3 a	0	Ð	٥	0	D	0	0	O
	105	0	) (	0 0	0	0	0	0	0	0	0	0
_	TOTAL				0		0		20		<u> </u>	

Stream: TWO LAKES

TWO LAKES IS MUCH MORE TURBID THAN TELAQUANA. IF SOCKEYE ARE PRESENT IN SIGNIFICANT MUMBERS, THEY ARE HIDDEN BY SILTY WATERS.

Drainage: AROLIK RIVER Latitude: 594400N Longitude: 1613500W

09/04/84	Qua	lity:	1.	Rating:	1							
Seq	Mathod	-	-	pawn Stg	Wind	Weather	Water			Botton	Sum Angle	Distance
60	1		DFG	1	1	1	1		1	1	1	1
	INDEX	Live Chinook	Dead Chinook	Chinook Redd	Live Chum	Dead Chum	Live Pink	Dead Pink	Live Sockeye	Dead Sockeye	Live Coho	Dead Coho
	101	0	0	0	0	0	0	0	0	0	2	0
	102	0	0	0	Q	0	Ð	0	0	0	0	D
	103	0	Ó	. 0	0	0	٥	0	0	0	0	0
	104	0	0		0	0	0	0	0	0	0	D
	105	0	0	0	. 0	0	0	0	0	0	0	0
_	TOTAL.	Q			0		0		0		2	

WHILE IN ROUTE FROM GOODNEWS TO BETHEL CROSSED UNMANED TRIB. OF MAGAKILEK CREEK WHICH IS TRIB. OF HORTH FORK AROLIK

Stream: UNNAMED CREEK/MAGARTLEK CR.

RIVER AND SAW PAIR OF SPAWNING COSO.

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SECUENCE: unique number assigned to a new row of data at time of entry. LATITUDE: standard latitude of a point near a body of water or tributery mouth. LONGITUDE: standard longitude of a point near a body of water or tributary mouth. STREAM: standard stream name as used in the Kuskokwim River Salmon Observation Catalog. DRAINAGE: standard drainage name as used in the Euskokwim River Salmon Observation Catalog. DATE: date of an observation. METHOD: primary equipment or technique used to obtain an observation (an F appended to an aircraft code denotes that it is aquipped with floats). 1. Super Cub 5. Maule 9. Foot Survey 13. Tagging Estimates 2. Cessna 185 6. Other Fixed Wing Aircraft 10. Counting Tower 14. Personal Interview 3. Cessna 180 7. Helicopter 11. Weir 15. Literature Review 4. Heliocourier 8. Boat 12. Soner WIND: to what extent did wind affect the visibility of salmon either by roughing the water surface or by affecting aircraft handling and attitude during the survey? 1. No effect 3. Moderate riffle or turbulence, affecting counts 2. Slight riffle or turbulence, slight effect on counts 4. Heavy riffle or turbulence, major effect on counts WEATHER: what portion of the sky is obscured by clouds? 1. Clear 3. Moderately Overcast (31-701) 2. Slightly Overcast (5-30%) 4. Overcast (71-100%) WATER: to what extent does water clarity prevent salmon observation? 1. Clear, no effect 3. Moderately turbid, bottom visible in shallow areas 2. Slightly turbid, deep pools obscured. 4. Extremely turbid, counts not possible WATER VISIBILITY: how easily is the water surface seen through glare, trees, shadows, ice, etc.? 1. Good visibility, optimum conditions 3. Moderate visibility, water frequently obscured 2. Fair Visibility, water surface seldom obscured 4. Poor visibility, water usually obscured BOTTOM: does the color and/or pattern of the stream or lake bottom camouflage salmon? 1. Light colored bottom, little pattern, optimum 3. Slightly dark with darker fish-sized pattern 2. Light colored bottom, some fish-sized dark pattern 4. Dark with extensive darker fish-sized pattern TIME (SUM ANGLE): does the time of day and the associated angle of incidence of sunlight affect salmon visibility? 1. Near local moon, sun angle greatest, optimum 3. Well before or after local moon, shadows long 2. Before or after local noon, shadows somewhat longer 4. Early or late in the day shade dominates DISTANCE: approximate air miles surveyed (survey time in hours times sirspeed in miles per hour). SPAUN STACE: are salmon present in maximum numbers? 1. Before peak, number of salmon is increasing 3. After peak, number of salmon is decreasing 2. Peak, number of salmon is maximum RATIMG: what is the observers impression of the effectiveness of the survey? 1. Good, salmon visibility good to optimum, survey at peak of spawning 2. Fair, salmon mostly visible, survey at peak of spawning 3. Poor, salmon difficult to view and/or survey not at or near peak of spawning QUALITY: computed as 1.25-((wind + weather + water + water vis. + bottom + time)/24). OBSERVER: observer's initials (up to 4 characters). AGENCY: observer's organizational affiliation (up to 4 characters) COMMENTS: notes which amplify or add to various aspects of the observation (up to 855 characters). INDEX AREA: standard stream areas defined in the pre-1984 historic data record (Kuskokwim Stream Catalog, 1954-1983).

Appendix B. Observer and agency index for Kuskokwim Area salmon escapement observation database.

NAME		INITIALS	AFFILIATION	AGENCY
Alt	Ken Bill	KA	AK. Dept. Fish/Game	ADFG
Arvey		BA	Ak. Dept. Fish/Game Ak. Dept. Fish/Game	ADFG
Baxter	Rae	RB	Ak. Dept. Fish/Game	ADFG
Brannian	Linda	LB FD	Ak. Dept. Fish/Game	ADFG
DeCicco	Fred	FD	Ak. Dept. Fish/Game	ADFG
Francisco	Kim	KF	Ak. Dept. Fish/Game Private Citizen	ADFG
Granrota	K.	KG	Privatē Citizen	PRIV
Huttunen	Dạn	DH	Ak. Dept. Fish/Game	ADFG
Jonrowe	Mike	МĴ	Ak. Dept. Fish/Game	ADFG
Kuhlman	Fritz	FK	Ak. Dept. Fish/Game Ak. Dept. Fish/Game	ADFG
Pennoyer	Steve	SP	Ak. Dept. Fish/Game	ADFG
Regnart	Ron	RR	Ak. Dept. Fish/Game	ADFG
Schaefer	Gary	GS	Ak. Dept. Fish/Game	ADFG
Schneiderhan	Dan <sup>-</sup>	DS	Ak. Dept. Fish/Game	ADFG
Schultz	Keith	KS	Ak. Dept. Fish/Game	ADFG
Scott	Mike	MS	Bureau of Land Mgt.	BLM
Weagle	Ken	KW	Bureau of Land Mgt.	BLM
Weir	Doug	DW	Northland Gold Corp.	NGCO
Yanagawa	Carl	CÝ	Ak. Dept. Fish/Game	ADFG

Appendix C. Stream location index for Kuskokwim Area salmon escapement database.

STRE	MAS	Drainage		LATITUDE	LONGITUDE	USGS M
3 LAKES BELOW RAGATI LAKE		Kanektok River		595400N	1601500W	GO-D3
101	entire	104	none.			
102	none	105	none		•	
103	none					
****	***********	*******	****	*******	*******	*****
ANIA	AK RIVER	Kuskokvim River		613440N	1592910W	RM-C
101	Mouth to Buckstock River	104	Gemuk	Mountain to Aniak Lake		
102	Buckstock River to Salmon Ri	ver 105	none			
	Salmon River to Gemuk Mounta					
*****	**************	******	*****	*****	******	******
ANIA	ak sohar	Kuskokwim River		613009N	1592226W	PM-C
101	none	104	none			
102	none	105	none			
103	none					
*****	*********	************	*****	******	*********	*******
AROL	LIK LAKE	Arolik River ,		592900N	1610600W	GO-C
101	entire	104	none			
102	none	105	DODe			
	none					
	****************		****	*******	******	*****
AROL	LIK RIVER	Kuskokwim Bay		593800%	1613600W	GO-C
101	North River to South/East Po	rk 104	East 1	Fork to Arolik Lake		
102	South River to South/East Fo	rk 105	none			
	South Fork		•			
	***********		****	********	*******	******
AWAY	AK LAKE NORTH	Goodnews River		593000N	1603636W	GO-C
101	entire	104	none			
102	none	105	none			
	none					
****	*******	**********	****	*******	******	*****
AWAY	YAK LAKE SOUTH	Goodnews River		592900N	1603600W	GO-0
	entire	104	pone			
101						
	none	105	none			

STRE	M	DRAINAGE			LATITUDE	LONGITUDE	USGS HAP
BARN	M CREEK	Goodnews Rive	r .		591500N	1612300W	GO-B7
101	entire		104	none			
102	none		105	none			
103	none						
*****	**********	*******	***	********	*********	******	******
BEAR	CREEK	Tuluksak Rive	r		610000N	1595800W	BE-D3
101	entire		104	none			
102	none		105	none			
103							
*****	*******	******	****	******	*****	*******	*****
BEAR	CREEK/PITKA FORK	Middle Fork/B	is R	lver	625100W	1543300W	14G-D4
101	entire		104	none	•		
102	none		105	none			
103							
****	************	******	****	***********			
BIG 1	IVE	Kuskokwim Riv	er		625800N	1545300W	MG-D4
101	entire		104	none			
102	none		105	none			
103							
	*********			•			
BIG	SALMON FORK	Little Tonson	a Ri	rer	625720M	1535530W	ME-A2
101	entire		104	none			
102	none		105	none			
103							
	*********		****	******			
BLAC	WATER CREEK	Big River			625730N	1545945W	MG-D4
101	entire		104	none			
102	none		105	Done			
	none						
*****	***************		***	*********	*****	· •	
BUCK	STOCK RIVER	Aniak River			612100¥	1591400W	RM-B1
101	entire		104	none			
102	none		105	none			
103	none						
*****	***********	******	****	**********	********	****	*****

,

•

	EAM	DRAINAGE		LATITUDE	LONGITUDE	usgs m
CAN	CREEK	Stony River		611600N	1550100W	LH-B
101	Mouth to foothills	104	none			
102	Poothills to headwaters	105	none			
103	none					
****	************	*****	*****	********	********	*****
CAN	YON CREEK	Kwethluk River		601400N	1601500W	BE-B4
	entire	-	none			
102	none	105	none			
	none					
	************		*****	******	*****	******
CAN	YON LAKE	Goodnews River		592600N	1610900W	GO-86
	entire		none			
102	none	105	none			
	none					
			*******	****	*******	*****
CAR	ter creek	Kuskokwim Bay		591700N	1615600W	GO-B8
	entire	104	none			
102	none	105	none			
	none					
****	*********		*******			******
****		Swift River	********	**************************************	1560030W	
CHE	*********	Swift River	naakkaakkaa Dona			LH-D8
CHE: 101 102	ENESTMUK RIVER  Mouth to foothills  Foothills to Shoeleather Creek	Swift River  104  105				
CHEI 101 102 103	Mouth to foothills Foothills to Shoeleather Creek Shoeleather Creek to headwater	Swift River  104 k 105	none none	614850M	1560030W	1.H-D8
101 102 103	Mouth to foothills Foothills to Shoeleather Creek Shoeleather Creek to headwater	Swift River 104 k 105 re	none none	61485GM	1560030W	LH-D8
101 102 103	Mouth to foothills Foothills to Shoeleather Creek Shoeleather Creek to headwater	Swift River  104 k 105	none none	614850M	1560030W	LH-D8
101 102 103 44444 CHID	Mouth to foothills Foothills to Shoeleather Creek Shoeleather Creek to headwater	Swift River  194 k 105 rs ***********************************	none none	61485GM	1560030W	LH-D8
101 102 103 44444 CHID	Mouth to foothills Foothills to Shoeleather Creek Shoeleather Creek to headwate:	Swift River  194 k 105 rs ***********************************	DODE DODE	61485GM	1560030W	LH-D8
101 102 103 ***********************************	Mouth to foothills Foothills to Shoeleather Creek Shoeleather Creek to headwate Shoeleather Creek to headwate State Creek Executive Creek entire none none	Swift River  104 k 105 rs ***********************************	none  *************  none  none  none	61485GM ************************************	1560030W **********************************	LH-D8
101 102 103 ***********************************	Mouth to foothills Foothills to Shoeleather Creek Shoeleather Creek to headwate:	Swift River  104 k 105 rs ***********************************	none  *************  none  none  none	61485GM ************************************	1560030W **********************************	LH-D8
CHES  101 102 103 ******* CHIB	Mouth to foothills Foothills to Shoeleather Creek Shoeleather Creek to headwate Shoeleather Creek to headwate State Creek Executive Creek entire none none	Swift River  104 k 105 rs ***********************************	none none none none none none	61485GM ************************************	1560030W **********************************	1.8-08 ********** ST-B6
CHES  101 102 103 ****** CHIS  101 102 103 ****** CHIS	Mouth to foothills Foothills to Shoeleather Creek Shoeleather Creek to headwate:  ***********************************	Swift River  194 105 104 105 104 105 104 105 105 106 106 106 107 108 108 108 108 108 108 108 108 108 108	none none none none none none	61485GM ************************************	1560030W	LH-D8
CHES  101 102 103 ****** CHIS  101 102 103 ****** CHIS	Mouth to foothills Foothills to Shoeleather Creek Shoeleather Creek to headwate: Shoeleather	Swift River  194 105 104 105 104 105 Chineekluk Creek	none none none none none none teessassassassassassassassassassassassass	61485GM ************************************	1560030W	LH-D8

NH.	DRAINAGE	LATITUDE	LONGITUDE	USGS MAP
NUK LARE	Bolitna River	612030N	1574730W	ST-A4
entire	*-··	<del></del>		
pone	105 1	one		
none				
WAN RIVER	Bolitna River	605000M	1575000W	TM-D5
Mouth to Enstalik Greek				
none	105 1	one		
none	•			
PLE CREEK	Kuskokvim Bay	592500N	161210DW	GO-38
entire	104	one .		
none	105 1	one		
none		•		
CED CREEK	Kuskokwim River	615210N	1580800W	8 <b>T</b> -D6
entire				
none	105 :	one		
none				
(S CREEK	Tonsona River	, 63093DN	1533210W	ME-A1
entire	104 1	OD6		
<del>-</del>				
	*****	******	*****	******
INGER RIVER	South Fork Kuskoky	m River 623440N	1593340W	MG-C1
entire	104 i	one ·		
none	105 i	one		
none				
*******	***	*******	********	******
IN CREEK	Crooked Creek	620445H	1581300W	ID-A5
entire	104	one		
entire none	104 i 105 i			
	MUK LAKE  entire none none mone mone mone mone mone mon	ENLIFE Holitus River  Entire 104 m none 105 m none  MAN RIVER Holitus River  Mouth to Enstalik Greek 104 m none  PLE CREEK Euskokvim Bay  entire 105 m none  finance 105 m none  finance 105 m none  finance 105 m none  first Tonsone River  entire none 105 m none  finance 105 m none	ED CREEK Kuskokwim River 615210H  entire 104 none 105 non	### ##################################

STREAM	DRAINAGE			LATITUDE	Longitude	USGS MAP
EAGLE MOUNTAIN CREEK	Stony Rive	er.		610800N	1542900W	LH-A4
101 entire		104	none			
102 none		105	none			
103 none						
******	*****	*****	********	*****	********	******
BAST FORK GEORGE RIVER	George Riv	70I		615900M	1573400W	ST-D5
101 Mouth to North Fork (same	as George R.)	104	none			
102 North Fork to beadwaters	(George River)	105	none			
103 none				•		
********	**********	****	*****	*****	**********	******
EAST FORK KUSKOKWIM RIVER	Kuskokwin	River		630700N	1543500W	ME-A4
101 entire		104	none			
102 none		105	none			
103 pone						
***********	*****	*****	*****	*****	*********	*****
BAST FORK OSKAWALIK RIVER	Oskawalik	River		613405N	1574030W	ST-C5
181 entire			none			
102 none		105	none			
103 none						
***********	*****	*****	*****	******	*****	*****
EEK RIVER	Kuskokwim	River	•	6012GON	1621500W	BI-A1
101 Mouth to Middle Fk. Ick R		104	Bek Lake Cre	ek to Rainy Creek Air:	trip	
102 Middle Pk. Eek River to G	-	105	Rainy Creek	Airstrip to headwater:	)	
103 Great Ridge to Eek Lake C						
*********	****	*****	*****	****	*****	******
FOG RIVER	Tuluksak R	iver		610500M	1604500W	RM-A5
101 entire		104	none			
102 none		105	none			
103 none						
*********	*****	*****	****	******	****	******
GAGARYAH RIVER	Swift Rive	r		613715W	1553840W	I.H-C6
101 Mouth to ridge on north s		104	none			
102 North side ridge to hill :	2550	105	none			
103 none						
*********	******	****	****	*******	******	*******

STREAM	DRAINAGE			LATITUDE	LONGITUDE	LONGITUDE USGS MAI	
GEMUK LAKE	Gemuk River	:		603400M	1585600W	TM-C8	
101 entire		104	none				
102 none		105	none				
103 none							
************	*******	***	*****	*******	*****	*******	
GEMUK RIVER	Chukowan Ri	Ver	•	604700M	1583200W	TM-D7	
101 entire		104	none	•			
102 none		105	none				
103 none							
************	******	****	*****	*********	*********	******	
GEORGE RIVER	Kuskokwim R	iver		615400M	1574200W	ST-D5	
101 Mouth to North Fork (see E. Fk.	George)	104	none				
102 North Fork to headwaters (see E	.Fk.G.R.)	105	none				
103 none							
****************	******	****	*******	*********	****	*****	
GOLD LAKE	Gold Creek/	Kisara	lik B.	601251N	1592730W	BE-A2	
101 entire			none				
102 none		105	none				
103 pone							
			*****	******			
GOODHEWS LAKE	Goodnews Ri	Ver		593000N	1613100W	GO-35	
101 entire		104	none				
102 none		105	none				
103 none							
**********	******	*****	*******	******	******	******	
GOODNEWS RIVER	Kuskokwim B	<b>47</b> ,		590700N	1613500W	GO-A7	
101 Mouth to Slate Creek		104	none	•			
102 Slate Creek to Nimgum Creek		105	none				
103 Wimgum Creek to Goodnews Lake							
**********	******	****	******	*******	*****	*******	
GRANITE CREEK	Tuluksak Ri	Ver		605830N	1600550W	BE-D3	
101 entire		104	none				
102 none		105	none				

	EAH	DRAINAGE		LATITUDE	Longitude	USGS MAP
HIGH	HPOWER CREEK	Swift Pork Kusk	okwim River	632500N	1530700W	ME-B1
101	entire	10	4 none			
102	none	10	5 none			
103	none				•	
*****	**********	******	*******	******	*******	*****
BORG	DLITNA RIVER	Holitna River		613035N	1565900W	ST-C3
101	Whitefish Lake to South Fork H	oholitna 10	4 none			
102	South Fork Hoholitna R. to mour	th 10	5 none	•		
	none					
****	**********	*****	*****	*****	*******	****
HOL1	ITHA RIVER	Kuskokwim River		614045N	1571000W	ST-C4
101	Mouth to Nogamut	10	4 Kashegalok	to Kogrukluk River Weir		
102	Nogamut to Kiknik Creek	10	5 none			
	Kiknik Creek to Kashegelok					
***	************	*********	*****	*****	*******	*****
HOLO	KUK LAKE	Bolokuk River		613216N	1583536W	ST-C7
101	entire	10	4 none			
102	none	10	5 none			
103	none					
103				****	*****	****
103	NONE ROBERTORRESTER SERVICE SE		*****	**************************************	1503535W	*********** <b>ST</b> -G7
103 ******	NONE ROBERTORRESTER SERVICE SE	kasasasasasasas Kuskokwim River	*****			
103 ****** HOLG 101 102	none  **********************************	Ruskokwim River	******			
103 HOLG 101 102 103	none  **********************************	Ruskokwim River 10	**************************************	619215H	1503535W	<b>ST</b> -C7
103 ****** HOLG 101 102 103	none  NAME AND	Ruskokwim River 10	**************************************	619215H	1503535W	<b>ST</b> -C7
103 ****** HOLG 101 102 103	none  **********************************	Ruskokwim River 10	**************************************	619215H	1503535W	<b>ST</b> -C7
103 ****** HOLG 101 102 103 *****	none  NAME AND	Kuskokwim River  10  10  Carter Bay/Kusk	**************************************	613215H	1583535W	<b>ST</b> -G7
103 ****** HOLG  101 102 103 ****** INDI	none  NAME RIVER  Mouth to Ski Creek  Ski Creek to Chineekluk Creek  Chineekluk Creek to headwaters  NAME CREEK	Kuskokwim River  10 10 10 Carter Bay/Kusk	**************************************	613215H	1583535W	<b>ST</b> -G7
103 ****** HOLO  101 102 103 ***** INDI  101 102 103	none  **********************************	Kuskokwim River  10 10 10 Carter Bay/Kusk	4 none 5 none seekseekseekseeks okwim Bay 4 none 5 none	613215# ************************************	1583535W **********************************	8T-G7 ************************************
103 ****** HOLO  101 102 103 ***** INDI  101 102 103	none  **********************************	Kuskokwim River  10 10 10 Carter Bay/Kusk	4 none 5 none seekseekseekseeks okwim Bay 4 none 5 none	613215# ************************************	1583535W **********************************	87-G7 ***********************************
103 ************************************	none  **********************************	Euskokwim River  10  10  10  Carter Bay/Kusk  10  10	***********  4 none  5 none  ***********  6kwis Bay  4 none  5 none	613215# ************************************	1583535W **********************************	87-G7 ***********************************
103 ******* HOLO 101 102 103 ****** INDI 101 102 103 ****** JACE	none  **********************************	Euskokwim River  10  10  10  Carter Bay/Kusk  10  10	4 none 5 none 6444444444444444444444444444444444444	613215H	1503535W **********************************	\$7-G7 ********* GO-B8
103 ******* HOLO 101 102 103 ****** INDI 101 102 103 ****** JACK	none  **********************************	Euskokwim River  10 10 10  consensessessessessessessessessessessesses	*********  4 none  5 none  **********  6 none  5 none  ************  ****************  uskokwim Bay	613215H	1503535W **********************************	\$7-G7 ********* GO-B8

STRE	IAM .	DRAINAGE	•	LATITUDE	USGS MAP	
JONE	S RIVER	South Fork Kusko	kwim River	623415N	1533330W	MG-C2
101	entire	104	none			
102	none	105	none			
	none					
****	************	******	****	******	******	******
K8-2	(location unknown)	Stony River		614611W	1563521W	ST-D
101	entire		none			
102	none	105	none			
	none		•			
****	*******	******	******	******	*********	***
KAGA	II LAKE	Kanektok River.		595200 <b>F</b>	1600500W	GO-D:
101	entire		none			
102	none	105	none			
	none					
****	************		********			
KALM	IAKOF RIVER	Kuskokvim River		613430H	1585330W	BT-C
	entire	104	+			
	none	105	none			
	none 				*******	*******
	KTOK RIVER	Kuskokwim Bay		594500H	1615600W	60-C
101	Mouth to Mukluk Creek	104	Kagati Lake			
102	Nukluk Creek to Kanuktik Creek	105	Kagati Lake to	o headwaters		
	Kanuktik Greek to Lake Kagati					
****	***********	*********	********	************	*********	*****
KANE	EKTOK TOWER (LOWER)	Kanektok River		594621W	1615018W	GO-CI
101	pone	104	none			
102	none	105	none			
103	none					
****	*************	*****	****	*******	*******	*****
WAND	KTOK TOWER (UPPER)	Kanektok River		595258M	1600746W	GO-C
AAPD						
	none	104	none			
			none none			

•

• •

STR	EAM	DRAINAGE		LATITUDE	LONGITUDE	USGS
KAN	UKTIK CREEK	Kanektok River		595300N	1602800₩	GO-
101	entire	104	none			
102	none	105	none			
103	none					
****	****	*******	**********	************	******	******
KAN	URTIK LAKE	Kanuktik Creek/Ke	nsktok R.	594400N	1601900W	GO-
	entire	104	none			
102	none	. 105	none			
	none					
***	*********	***********	******	******	****	*****
KAB	IGLUK RIVER	Kuskokwim River		605045M	1611400W	BE-
101	Mouth to first cutoff	104	Little Kasigh	ak River to Canyon		
102	First cutoff to second cutof:	f 105	Done			
	Second cutoff to Little Kasi					
****	********	*******	*******	********	*****	*****
KAS:	IGLUK SONAR	Kasigluk River/Ku	iskokwim R.	604808H	160575 <del>6W</del>	BE
	none	104	none			
103	none	105	none			
103	none					
103	******		******			
103		Chagvan Bay	******	584915N	1614045W	######### -IH
103 ****** KIN	******	Chagvan Bay	none			
103 ****** KIN	**************************************	Chagvan Bay	·			
103 ****** RIN 101 102	**************************************	Chagvan Bay	none			
103 ******* KIN 101 102 103	**************************************	Chagvan Bay 104 105	none none	584915N	1614045W	HI-
103 ******* RIN: 101 102 103	**************************************	Chagvan Bay 104 105	none none	584915N	1614045W	HI-
103 *****  KIM  101 102 103 *****  KIP	entire cone none *******************************	Chagvan Bay 104 105 ***********************************	none none	584915N	1614045W	HI.
103 ***** KIN:  101 102 103 **** KIP:  101 102	entire none none ****************************	Chagvan Bay  104 105  **********************************	none none erkkakkekkakk	584915N	1614045W	HI-
103 ******  RINI  101 102 103 *****  RIP  101 102 103	entire none none ****************************	Chagvan Bay  104 105  *********************  Aniak River  104 105	none none ***************** none none	584915N ************************************	1614045W ************************************	HI- ************************************
103 ***** KIN:  101 102 103 **** KIP:  101 102 103	entire none none ****************************	Chagvan Bay  104 105  *********************  Aniak River  104 105	none none ***************** none none	584915N ************************************	1614045W ************************************	HI ************************************
103 ******  RINI  101 102 103 *****  RIP  101 102 103 *****	entire none none ****************************	Chagvan Bay  104 105  *********************  Aniak River  104 105	none none ***************** none none	584915N ************************************	1614045W ************************************	HI-
103 *****  KINI  101 102 103 ****  KIP  101 102 103 ***  KIS	entire none none ****************************	Chagvan Bay  104 105  Aniak River  104 105	none seekkekekekekekekekekekekekekekekekeke	584915N ************************************	1614045W	HI-
103 *****  KIN:  101 102 103 ****  KIP:  101 102 103 ***  KIS:	entire none none ****************************	Chagvan Bay  104 105  Aniek River  104 105  Kisaralik River	none seekkekekekekekekekekekekekekekekekeke	584915N ************************************	1614045W	HI- **************

STREAM	DRAINAGE			LATITUDE	LONGITUDE	USGS MAI
KISARALIK RIVER	Kuskokwim l	River		605130N	1611400W	BE-D6
101 Mouth to south 90 degree	• turn	104	none			
102 South 90 degree turn to	Goldengate Falis	165	none			
103 Goldengate Falls to Kiss						
******			************			TM-D5
KOGRUKLUK RIVER	Holitna Riv	AGL		604900N	1575100W	1M-D3
101 entire		104	none			
102 none		105	none			
103 none						
	******					
KOGRUKLUK TOWER	Kogrukluk I	KIAOL/H	olitna R.	604947N	1575051W	TM-D5
101 none		104	none			
102 none		105	none			
103 none				•	•	
*************						
KOGRUKLUK WETR	Kogrukluk i	River/Ho	olitna R.	604947W	1575052W	TM-D5
101 none		104	none			
102 none		105	none			
103 pope						
	******	****	*********	******	****	*****
************						
	Kukaktlim (	Gr./M Pi	Goodnevs	592000W	1603000W	GQ-B4
***********		Cz./K <b>P</b> i 104		592000W	1603000W	GO-B4
**************************************		-	none	592000W	1603000W	GQ-B4
RUKARTLIM LAKES  101 entire 102 none 103 none	Kukaktlim (	104 105	none none			
RUKARTLIM LAKES  101 entire 102 none	Kukaktlim (	104 105	none none	******	******	*******
RUKARTLIM LAKES  101 entire 102 none 103 none	Kukaktlim (	104 105	none none			
KUKAKTLIM LAKES  101 entire  102 none  103 none  **********************************	Kukaktlim ( ************************************	104 105	none none teasaanaanaanaa	600500N	******	*******
RUKARTLIM LAKES  101 entire 102 none 103 none ***********************************	Kukaktlim ( ************************************	104 105 ***********************************	none none	600500N 600Tath	******	*******
KUKAKTLIM LAKES  101 entire 102 none 103 none ***********************************	Kukaktlim (	104 105 ***********************************	none none ******************************	600500N 600Fath	******	*******
EUKARTLIM LAKES  101 entire 102 none 103 none ***********************************	Kukaktlim ( ************************  Kuskokwim    River  River	104 105 ***********************************	none none ***********  Holitha River t MoGrath to head	600500N GOOSOON O MoGrath Ivaters	**************************************	**************************************
RUKARTLIM LAKES  101 entire 102 none 103 none ***********************************	Kukaktlim ( ************************  Kuskokwim    River  River	104 105 ***********************************	none none ***********  Holitha River t MoGrath to head	600500N GOOSOON O MoGrath Ivaters	**************************************	**************************************
KUKAKTLIM LAKES  101 entire 102 none 103 none ***********************************	Kukaktlim (  *********************  River  River  ***********************************	104 105 ***********************************	none none  Holitha River t MoGrath to head	600500N CO MoGrath Lwaters ************************************	*****************	**************
RUKARTLIM LAKES  101 entire 102 none 103 none ***********************************	Kukaktlim (  *********************  River  River  ******************  Kuskokvim	104 105 ***********************************	none none  Holitha River t McGrath to head	600500N CO MoGrath Lwaters ************************************	*****************	**************

STREAM	DRAINAGE	LATITUDE			
KWETHLUK SOWAR	Kwethluk River	602805W	1610610W	BE-D7	
101 none	104 none				
102 none	105 none				
193 none					
	************	********	******	*****	
LAKE ABOVE KANUKTIK LAKE	Kanuktik Creek/Goodnews R.	594500M	1601000W	GO-C4	
101 entire	104 none				
102 none	105 none				
103 pone	•				
	**********		********	******	
LITTLE KASIGLUK RIVER	Kasigluk River/Kuskokwim R.	604100N	1603600W	BE-C5	
101 entire	104 none				
102 none	105 none				
103 none					
	*************	*****	*******	*******	
LITTLE TONZONA RIVER	South Fork Kuskokwim River	625756H	1632139W	MG-D3	
101 entire	104 none -				
102 none	105 none	•			
103 none					
	*************	*******	*******	*****	
LITTLE UNDERHILL CREEK	Stony River	614545N	1544740W	LH-C4	
101 entire	104 none				
102 none	105 none				
103 none					
*********	*******	********	*******	*******	
MIDDLE FORK BEK RIVER	Eek River	600800N	1613500W	BE-A7	
101 entire	104 none				
102 none	105 none				
103 none	•				
**********	*******	******	******	******	
	Middle Fork Goodnews River		16036DOW	GO-B5	
101 North Lake and inlet creek	to headwaters 104 Upper Kukaktlin	Lake Cr. to headw	iters		
102 South Lake and inlet creek					
103 Kukaktlim Lakes & inlet or	. to U.Kuk. L.				
*********	<b>京南南南南南南南南南南南南南南南南南南南南南南南南南南南南南南南南南</b>	*****	******	******	

STRE	АН	DRAINAGE			LATITUDE	LONGITUDE	usgs map
MIDD	LE FORK GOODNEWS RIVER	Goodnews Rive	•r		590800¥	1612900W	GO-A7
101	Mouth to fork of North and Sout	h L. Crs.	104	Kukaktlim Creek			
102	North Lake Creek		105	none			
103	South Lake Creek						
****	***********	******	****	******	******	******	******
MIXO	W PORK	Takotna River	r		630200M	15540DOW	MG-D6
101	entire		184	none			
102	DODE		105	none			
103	none						
****	**********	********	****	********	******	****	********
NORT	H FORK GEORGE RIVER	George River			620300N	1573400W	ID-A4
101	entire		104	none			
	none			none			
	none						
	*****	*******	****	*********	******	**********	****
HORT	H FORK KUSKOKWIM RIVER	Kuskokwim Riv	re r		630700N	1543400W	ME-A4
101	entire			none			
102	none		105	none			
	none						
	**********			*********			
MOKE	UK CREEK	Kenektok Rive	er		594300W	1605800W	GO-C6
101	entire		104	none			
102	none		105	none	-		
103	none						
****	********	*******	****	*******	*****	******	*********
OPH)	R CREEK	Whitefish Lab	K <b>a</b>		612000N	1600000W	RM-B4
101	entire		104	none			
102	none		105	none			
	none						
	*****************			*******			
OSK	WALIK RIVER	Kuskokwim Riv	ASE		614430N	1581130W	ST-C6
				Wandanaan Wanasata .			
101	Mouth to South Greek		104	Henderson Mountain	CO DESCRIPTION		
101 102				nous	CO Descarates		

•

STREAM	DRAINAGE	LATITUDE	Longitude	USGS MAP
OWHAT RIVER	Kuskokwim River	613600N	1592500W	RM-C2
101 entire	104 none			
102 none	105 none			
103 none				
********	************	************	********	*******
OYAK CREEK	KUSKOKWIM BAY	594743H	1615700W	GO-D8
101 entire	104 none			
102 none	105 none			
103 none				
*******	**********	***********	*****	*******
PITKA FORK	Middle Fork River	625600N	1544500W	NG-D4
101 entire	104 none			
102 none	105 none			
103 none				
*********	********	*******	******	******
POST RIVER	South Fork Ruskokwim Riv	res 622400N	1532800¥	MG-81
101 entire	104 none	•		
102 none	105 none			
103 none				
*******	**************	******	*******	*******
POTHOLES LAKES	Goodnews River	592002N	1603002W	GO-B5
101 entire	104 none			
102 none	105 none			
103 none				
********	***********	******	******	******
QUICKSILVER CREEK	Kisaralik River	602305W	1595905W	BE-B3
101 entire	104 none			
102 none	105 none	,		
103 none				
*********	*********	*********	******	******
QUICKSILVER LAKES	Quicksilver Cr./Kisarsli	k R. 602300M	1595900W	BE-B3
101 entire	104 none			
102 none	105 none	·		

SALM	OH RIVER	Kuskokwim Bay		585143H	1614556W	HI-De
101	entire	104				
102	none	103	none			
	none					
	**********		*****			
SALM	ON RIVER/ANIAK RIVER	Kuskokwim River		610400M	1591100W	RM-A1
	Mouth to Marvel Creek		попе			
102	Marvel Creek to Cripple Creek	103	none			
	Cripple Creek to headwaters					
*****	*********		the second second		******	
SALM	ION RIVER/PITKA FORK	Middle Fork/Big	River	625330N	1543420W	MG-D4
	Mouth to fork		South Fork			
102	North Fork	105	none	•		
	Middle Fork					
-	ATNA RIVER	Kuskokwim River		623100H	1554800W	MG-C
		444				
	entire	104		•		
	none	103	none			
		******		******		******
	COUNT CREEK	Bolitna River		604901H	1575101W	TH-D5
101	entire	104	none			
	none	109	none			
	none		•			
	***********	********	*******	*****	*******	****
SLAT	TE CREEK	Tuluksak River		605900N	1600100W	BE-DS
101	entire	104	none			
102	none	105	none			
103	none					
*****	**********	***********	*******	********	*********	*****
	A CREEK	North Fork Kuske	kwim River	631500N	15401DOW	ME-B
BODA			-			
	entire	104	none			
101	entire none		none none			

STRE	STREAM DRAINAGE		DRAINAGE LATITUDE				
SOUT	H FORK GOODNEWS RIVER	Goodnews River		590730N	1612930W	GO-A7	
101	entire		none	•			
102	none	105	none				
103	none						
****	******	******	****	*********	******	*****	
SOUT	H PORK HOHOLITHA RIVER	Hoholitna River/H	olitna R.	605400H	1561500W	TM-D1	
	entire	104	none ·				
102	none	105	none				
103	Rone						
****	******		*****	*******	*****	*******	
SOUT	H FORK KUSKOKWIM RIVER	Kuskokvim River		630500N	1543900W	ME-74	
	entire		none				
	none	105	none				
	none				•		
	*****		******	*******	*****	*****	
SOUT	H LAKE	Goodnews River		592401W	1603601W	GO-C5	
	entire		none				
	none	105	none				
	none						
	**************************************	**************************************		613090N	1560750W	********** ST-C1	
		promy kives	•	0130308	1300/30#	81-01	
101	entire	104	none				
102	none .		none				
103	none						
****	********	******	******	******	******	*****	
BTON	X BIARB	Kuskokvim River		614610N	1563520W	ST-D1	
101	entire	104	none				
102	none	105	nene				
103	none						
****	***	*****	******	******	*********	******	
SULL	IVAN CREEK	Pitka Fork		624800N	1542900W	MG-D4	
	entire	104	none				
101	4						
	none	105	none				

STRE	AM	DRAINAGE		LATITUDE	LONGITUDE	USGS MAP
SWIF	T RIVER	Kuskokwim River	•	615320N	1561830W	ST-D1
101	entire	104	none			
102	none	105	none			
103	none	-				
*****	************	**********	*******		*******	
TAKS	HILIK CREEK	Kanektok River		594400N	1610000W	GO-C6
	entire		none	•		
102	none	105	none			
	none					
	*****************					
TATI	MA RIVER	South Fork Kuskel	wim River	621800H	1532300W	MG-B1
101	entire	104	none			
102	none	105	none			
	none					
	**********		******			
TATL	AWIKSUK RIVER	Kuskokvim River		615510N	1561430W	ST-D1
	Mouth to foothills (1172 Witsuk	•				
	Foothills to hill 1465	105	none		_	
	Hill 1465 to headwaters					
		Stony River	,	605700N	1535200W	LC-D3
	entire	***				
	none	=	none none		•	
		103	none .			
	NODE:	*******	******		******	******
	'	Stony River		610410N	1542430W	fc-D3
101	entire	104	none			
102	none	105	none			
103	none		·			
*****	*******	********	*****	*******	******	******
TEVY	ARAQ L. (FORMER UNNAMED)	Holokuk River		611700W	1580200W	ST-A6
101	entire .	104	none			
102	none	=	none			
103	none					
*****	************	********	*****	******	******	******

STREAM	DRAINAGE	:		LATITUDE	LONGITUDE	USGS MAP
TEVYARAQ LAKE	Chineekl	uk Czeek/	Holokuk R.	611605H	1580143W	ST-B6
101 entire		104	none			
102 none		105	none			
103 none						
********	**************	*******	******	*******	*********	*********
TITNUK CREEK	Holitna 1	River		612100N	1570300W	et-b3
101 entire			none			
102 none		105	none			
103 none			•			
*******	*************		*****	******	**********	*****
TROUT LAKE	Stony Riv	AGE		611700¥	1553200W	LH-A7
101 entire		104	none			
102 none		105	none			
103 none		•				
*****	*********	******	*******	******	*******	*******
TULUKSAK RIVER	Kuskokwis	a River		610600N	1605800W	RM-A6
101 Mouth to P	ooth111s	104	DOD4			
102 Foothills	o Nyac	105	none			
103 Myac to he						
*******	**********	*****	******	*****	*****	********
Tunkaleshna Crei	K Stony Riv	VOI.		610700N	15426GDW	LH-A4
101 entire		104	none			
102 none		105				
103 none			2000	•		
*******	********	*****	*****	****	*******	******
TUNULIK RIVER	Goodneys			590800N	1613730W	GO-A7
101 entire		104	none			
102 none	<u>.</u>	105	nons			
103 none			•			
*****	*********	******	******	*******	*****	*****
TWO LAKES	Stony Riv	ver		610730N	1534500W	LH-A2
101 entire		104	none			
102 none		105	none			
103 none	•					
*********	**********	*****	*****	*********	*****	*****

			<del></del>		
UNAL	LUK RIVER	Kinegnak River	585000M	1613800W	HI-1
101	entire	104 none	•		
102	none	105 none			•
103	none				
****	**********	************	*****	*******	*****
UNNA	AMED TRIBUTARY	Big River	624500M	1544000W	MG-1
101	entire	104 none			
102	none	105 none			
103	none				
*****	**********	**********	***********	******	****
UNNA	AMED TRIBUTARY	Chineekluk Creek	611930N	1580200W	6T-1
101	entire	104 none			
102	none	105 none			
	none				
*****	***********	*************************	************	********	*****
UNHAMED TRIBUTARY		George River	620301W	1573401W	ID-A
101	entire	104 none	•		
102	none	105 none			
	none				
	<u> </u>	*****************	***********	********	****
UMMA	AMED TRIBUTARY	North Fork Swift River	613500N	1544509W	TH-C
101	entire	104 none			
102	none	105 none			
103	none				
****	*********	*************	**********	*******	*****
UNHAMED TRIBUTARY		Stony River	610200N	1541500W	LH-A
101	entire	104 none	•		
102	none	105 none			
103	none				
*****	*******	****************	*****	*******	*****
UNNA	AMED TRIBUTARY	Suift River	613000M	1550000W	LH-C
	entire	104 none			
102	none	105 none			

STREAM		Drainage		LATITUDE	LONGITUDE	USGS MAP
WATERBO	OOT CREEK	Aniak River		605400N	1590000W	BK-D1
101 ex	atire	104	none			
102 no	one	105	none			
103 no	one					
*****	*********	*******	*****	*****	********	******
WEST Y	ORK OSKAWALIK RIVER		613200N	1574300W	ST-C5	
101 er	ntire	104	none			
102 no	one	105	DODE			
103 no	one					
******	************	********	<del>,**********</del>	***********	*******	*****
WHITEF)	ISH LAKE	Ophir Creek		612200N	1600100W	RM-B3
101 er	ntire '	104	поре			
102 no	one	105	none			
103 no	one					